CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 14, 1909.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 9
List of Contracts Pending 9
Railways 9
Electric Railways 10
Light and Power Plants 10
Bridges 10
Buildings 12
Water Supply and Irrigation 12
Sewerage 13
Garbage Disposal 13
Streets and Roads 13
Manufacturing Plants 14
Miscellaneous Contracts 14
U. S. Possessions and Cuba 15
Contract Prices 15
INDUSTRIAL NOTES 16
TRADE PUBLICATIONS 16
PROPOSALS 16

CONSTRUCTION NEWS.

Plans and Specifications on File.

(* denotes that this work is advertised in Engineering News.)

The following plans (P.) and Specifications (S.) are on file and may be seen at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See Issue.
1-15*	Dredging, Mobile, Ala. (S.)	12-17
1-16	Building, New York, N. Y. (S.)	12-31
1-20*	Superstructures, Chicago, Ill. (S)	1-14
1-23*	Dredging, Bridgeport, Conn. (S.)	12-24
1-25*	W-Wks., Daytona, Fla. (P. & S.)	12-31
1-30	Elevator, Vallejo, Cal. (S.)	1- 7
2- 1	Vitrified pipe, Leavenworth, Kan. (S.)	1- 7
2- 5*	Condenser, etc., Key West, Fla. (S.)	1- 7

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

1-15 Electric apparatus, New York 1- 7
1-15 Wiring, etc., Ft. Sam Houston, Tex 1-14
1-18 Light plant, Moundridge, Kan. 1-14
1-19 Elec. equip., Ellwood City, Pa. 1-14
1-19 Power plant, East Point, Ga. 12-31
1-20 Elec. pump, Charleston, S. C. 1-14
1-20 Lamps, etc., Winnipeg, Man. 1-14
2- 5 Lighting, St. Louis, Mo. 1- 7

BRIDGES.

1-15 Bridge, St. Louis, Mo. 12-31
1-15 Bridge, Chicago, Ill. 12-31
1-16 Superstructure, etc., Dayton, O. 12-31
1-18 Bridge repair, Youngstown, Ohio 1- 7
1-18 Bridges, Cedar Rapids, Iowa 1-14
1-20* Superstructures, Chicago, Ill. 1-14
1-20 Bridge repair, Toledo, Ohio 1- 7
1-21 Bridges, Boston, Mass. 1-14
1-22 Culvert, etc., Cincinnati, Ohio 1-14
1-25 Bridges, Goderich, Ont. 1-14
1-25 Bridge, Port Elgin, Ont. 1-14
1-25 Rebuilding bridge, Ira, Ohio 1-14
1-28 Bridge, Cedar Rapids, Iowa 1-14
1-29 Bridges, etc., Cincinnati, Ohio 1- 7
1-30 Bridge, Dayton, Ohio 1-14
1-30* Bridge, Beaufort, N. C. 1- 7
2- 5 Bridge, Cincinnati, Ohio 1-14
3- 4 Bridges, Paris, Ark. 12-17

BUILDINGS.

1-15 Asylum, St. Louis, Mo. 1-14
1-15 Building, Mt. Weather, Va. 1- 7
1-16 Building, New York 12-31
1-16 Court-house, etc., Elko, Nev. 1-14
1-16 Town hall, Northfield, Ohio 1-14
1-18* Hay-shed, Ft. Meade, S. Dak. 12-17
1-19 Buildings, San Jose, Cal. 12-31
1-20 School, Wilkinsburg, Pa. 12-24
1-20 Bank, Nashville, Tenn. 1-14
1-21 Building, Fayetteville, N. C. 1-14
1-23 Quarters, etc., Portland, Me. 12-24
1-23 Post-office, Anderson, S. C. 12-24
1-26 Post-office, Logan, Utah 12-24
1-28 Church, Bloomington, Ind. 1-14
1-30 Purchase of cement plant, Toronto, Ont. (Mfg. Pl.) 1-14
1-30 Elevator, Vallejo, Cal. 1- 7
1-30 Buildings, New London, Conn. 1- 7
2- 1 Hospital, Los Angeles, Cal. 1- 7
2- 1* Post-office, Fayetteville, Ark. 12-24
2- 1 Machinery, Ashley, Miss (Mfg. Pl.) 1-14
2- 1 Hospital, Regina, Sask. 1-14
2- 4* Post-office, San Antonio, Tex. 12-31
2- 8 Post-office, Clarinda, Ia. 1- 7
2-10* Quarters, New London, Conn. 12- 3
2-15 Post-office, Shenandoah, Iowa 1-14
2-15 School, Grand Rapids, Mich. 1-14
2-17* Post-office, Salisbury, N. C. 1-14

WATER-WORKS.

1-15* Air compressor, Dallas, Tex. 1- 7
1-15* Cement, Portland, Ore. 11-26
1-16 Water main, Roanoke, Va. 1- 7
1-18 Water-works, Moundridge, Kan. 1- 7
1-18* Water tank, Wellington, Kan. 12-31
1-18 Water-works, Kingsland, N. J. 1-14
1-18 Cast-iron pipe, Lyndhurst, N. J. 1-14
1-19 Water-works equip., East Point, Ga. 12-31
1-19* Water-works material, Seymour, Tex. 1- 7
1-20 Water-works, Augusta, Kan. 1- 7
1-21 Pumps, Charleston, S. C. 1-14
1-21 Water connections, Fort Hancock, N. J. 1-14
1-25* Water-works, Daytona, Fla. 12-31
2- 1 Well, Denison, Iowa 12-31
2- 1* Water plant, Saltsburg, Pa. 1-14
2- 2* Water-works, Hugo, Okla. 1-14
2- 2 Pumping engine, Kenosha, Wis. 1-14
2- 2 Pump, Richland Center, Wis. 1- 7
2- 5* Condenser, Key West, Fla. 1- 7
2-22* Pump, Winnipeg, Man. 12- 3

SEWERS.

1-15 Sewer, Toronto, Ont. 1- 7
1-15 Sewers, Detroit, Mich. 1-14
1-15 Sewer system, Tonawanda, N. Y. 1-14
1-18 Sewer, New York 1- 7
1-18 Sewer, Roanoke, Va. 1-14
1-19 Sewer, Ashtabula, Ohio 1-14
1-19 Sewerage, East Point, Ga. 12-31
1-20 Sewers, Toledo, Ohio 1-14
1-21 Sewers, etc., New York 1-14
1-21 Sewer system, Sylvania, Ohio 1-14
1-21 Cleaning catch-basins, Boston, Mass. 1-14
1-22 Sewer, Louisville, Ky. 1- 7
1-25 Sewers, Purcell, Okla. 1-14
2- 1 Vitrified pipe, etc., Leavenworth, Kan 1- 7
2- 5 Sewer pipe, etc., Banff, Alta. 1-14
2- 8 Sewers, College Hill, Ohio 1-14
2-15 Sewer, Great Falls, Mont. 1- 7
3- 8 Sewer, Grundy Center, Iowa 1- 7

STREETS AND ROADS.

1-15 Road, La Fayette, Ind. 12-31
1-15 Paving brick, Detroit, Mich. 1-14
1-16 Grading, Cleveland, Ohio 12-31
1-16 Roads, Marion, Ind. 1- 7
1-18 Paving, Emporia, Kan. 1- 7
1-18 Paving, etc., Naperville, Ill. 1- 7
1-18 Road, Indianapolis, Ind. 12-31
1-18* Sidewalks, Pensacola, Fla. 12-24
1-18 Street impvt., Jersey City, N. J. 1-14
1-18 Grading, Mineola, N. Y. 1-14
1-19 Paving, Huntsville, Ala. 1- 7
1-20 Roads, Marion, Ind. 1- 7
1-20 Roads, etc., Marion, Ind. 1- 7
1-20 Paving stone, etc., Baltimore, Md. 1-14
1-20 Paving, Chicago, Ill. 1-14
1-21 Macadam, Columbus, Ohio 1-14
1-21 Paving, etc., New York 1-14
1-22 Street impvt., Cincinnati, Ohio 12-31
1-25 Road machinery, North Vancouver, B. C. 12-31
1-26 Grading, etc., Annapolis, Md. 1-14
2- 1 Road, Fowler, Ind. 1-14
2- 1 Roads, Greenfield, Ind. 1-14
2- 1 Paving, Appleton, Wis. 12-24
2- 1* Pavement, Olympia, Wash. 12-24
2- 2 Roads, Crawfordsville, Ind. 1-14
2- 2 Roads, Vincennes, Ind. 1-14
2- 3 Roads, Kokomo, Ind. 1-14
2- 3 Grading, etc., Cleveland, Ohio 1- 7
2-12 Road, Fowler, Ind. 1- 7
2-18 Road, Spencer, Ind. 1-14

MISCELLANEOUS.

1-15 Tile ditch, Jefferson, Iowa 12-24
1-15* Cement, Portland, Ore. 11-26
1-15 Cruiser, Ottawa, Ont. 12- 3
1-15* Dredging, Mobile, Ala. 12-17
1-15 Ditch, Ft. Dodge, Ia. 1- 7
1-15 Drain, Urbana, Ill. 1- 7
1-15 Sand, coke, pig iron, Augusta, Ga. 1-14
1-15 Street sweeping (Garbage), Middletown, Ohio 1-14
1-15 Levee, Alexandria, La. 1-14
1-16 Canal supplies, St. Catharines, Ont. 1- 7
1-16 Ditch, Goshen, Ind. 12-31
1-18 Cement, Chicago, Ill. 12-31
1-18 Ditch, Des Moines, Ia. 1- 7
1-18 Supplies, Panama 1-14
1-19 Dredge, Toronto, Ont. 1- 7
1-19 Hydraulic dredge, Toronto, Ont. 1-14
1-20* Incineration plant, Boston, Mass. 12-24
1-21 Tugboat, Detroit, Mich. 12-31
1-23* Dredging, Bridgeport, Conn. 12-24
1-25 Cement, Plymouth, Mass. 1- 7
1-25 Supplies, Panama 1-14
1-26 Supplies, Panama 1-14
1-27 Ditches, Crookston, Minn. 1-14
1-29 Cement, Ottawa, Ont. 1- 7
2- 1 Ditch, Sioux City, Iowa 1-14
2- 6* Removing wrecks, Boston, Mass. 1-14
2- 6* Ditches, levees, Atkinson, Ill. 1-14
2- 8* Fence, Prescott, Ariz. 1- 7
2-10 Ditch, Logan, Ia. 1- 7
2-13 Drydock, Hawaii 12-17
2-15 Monument, Indianapolis, Ind. 1-14

FOREIGN.

1-19 Ry. supplies, South Australia 12-31
1-20 Railway, Roumania 12-31
1-24 Electric railway, Russia 12-31
2-15 Electric railway, Algeria 12-31
3- 1 Floating dock, Egypt 12-31

CIVIL SERVICE.

1-20 City Engr., Calgary, Can. 1- 7
1-23 Gas meter inspect., New York 12-31
1-23 Draftsman, Albany, N. Y. 12-31
1-25 Bacteriologist, New York, N. Y. 12-31
2- 3 Inspector Hulls, Galveston, Tex. 1- 7
2- 3 Civil & Hyd. Engr., Wash., D. C. 1- 7

RAILWAYS.

ATHABASCA RAILWAY.—Application will be made at the next session of the Canadian Parliament for an act extending the time for building this projected line from Edmonton, Alta., northeast, following the north bank of the North Saskatchewan River to Township 59, range 19, west of the fourth principal meridian, thence northeast past Smoky Lane to the western end of Lac Labiche, thence in a northerly direction to the junction of the Athabasca and Clearwater Rivers.

ATLANTA, BIRMINGHAM & ATLANTIC.—Announcement is made of the appointment of H. M. Atkinson and P. S. Arkwright, respectively Pres. and Vice-Pres. of the road, as receivers of the corporation.

BEAUMONT & GREAT NORTHERN.—The property of this company, along with 150,000 acres of timberland in Polk County, Tex., has been bought by a syndicate, of which B. F. Yoakum is the head, according to press reports. Also this syndicate proposes to build a cut-off between Beaumont, Tex., and Dallas or Fort Worth and will utilize the Beaumont & Great Northern and several other railway properties in the vicinity of Beaumont.

CHICAGO, JOLIET & PACIFIC.—Incorporated in Illinois to construct a railway from Chicago southwesterly and westerly through the Counties of Will, Grundy, La Sallee, Bureau, Henry and Mercer to Keithsburg, Mercer County. The incorporators are George Fuller, Isaac B. Fuller, William H. Richardson and Charles F. Blue, all of Chicago. Capital, $50,000.

CROWS NEST & NORTHERN.—C. O. Diffenderfer, Ch. Engr., 622 Peyton Block, Spokane, Wash., advises us that survey is made and negotiations now pending for new line from Crows Nest, B. C., northward along north fork of Michel Creek, 14½ miles. Capital is secured. Estimated quantity of excavation, 245,000 cu. yds. There will be two truss bridges and nine timber trestles. Contracts probably will be awarded in April. J. A. Williams is Pres., 610 Hyde Block, Spokane. Noted on Dec. 10.

ELDORADO, MARION & SOUTHWESTERN.—Surveys are made and capital for construction partly secured for the proposed extension of the Eldorado, Marion & Southwesten R. R., from Marion, Ill., to Eldorado, Ill., 30 miles. P. R. Colp, Marion, Ill., is Gen. Mgr.

HIDALGO & NORTHEASTERN.—See National Lines of Mexico.

LOS ANGELES HARBOR R. R.—Company will soon begin the construction of a railroad around the west basin of San Pedro inner harbor, San Pedro, Cal. Condemnation proceedings have already been instituted to acquire the right-of-way. Until recently the Los Angeles Harbor Railroad Co. has been owned by the Los Angeles Harbor Company. W. J. Arkell, Los Angeles, is the promoter.

MEXICO & COLORADO.—This company was recently incorporated by Walter Douglas, M. J. Brophy, M. J. Cunningham, E. E. Ellinwood and John Boler, of Bisbee, Ariz., to build from Douglas, Ariz., to Courtland, 35 miles.

MOUNTAIN, VALLEY & PLAINS R. R.—The following officers of this company, which proposes to build from Cimarron, N. Mex., to Higgins, Tex., 290 miles, and thence to Oklahoma City, Okla., an additional 160 miles, are Del W. Harrington, of Dalhart, Tex., Pres.; Ben. O. Boyce, Vice-Pres.; H. S. Wanamaker, Secy. and Gen. Mgr., both of Amistad, N. Mex., and Jay M. Cogan, of Canton, Ohio, Treas. The route to Oklahoma City would be via Arnet, Seiling and Watonga, Okla. Noted fully on Dec. 31.

NATIONAL LINES OF MEXICO.—Announcement is made that this system has taken over the railroad lines and other property of the Hidalgo & Northeastern Railroad Co., and will hereafter operate them as a part of the government railway merger system.

NEW YORK, WESTCHESTER & BOSTON. (New York, New Haven & Hartford.)—See item under Electric Railways—"New York, N. Y."

PANACEA R. R.—This company, which will build a railway from a point on the Georgia, Florida & Alabama Ry. at or near Sopchoppy or Ashmore, Fla., to a point at or near Vereen, Fla., 14 miles, has not taken steps yet toward letting contracts. Capital, $50,000. The incorporators are W. E. Smith, Pres., of Attapulgus, Ga.; C. C. Brown, of Bainbridge, Ga.; G. W. Hagan, of Iron City, Ga.; S. Brinson, of Brinson, Ga., and Thos. H. Hall, of Tallahassee, Fla. The officers are W. E. Smith, Pres.; T. H. Hall, Vice-Pres.; C. C. Brown, Secy. and Treas.

PEORIA & GALESBURG.—Incorporated in Illinois with capital stock of $100,000. The road is to be constructed from Peoria through Peoria and Knox Counties to Galesburg, and from Peoria through Peoria and Fulton Counties to Canton, Fulton County. Incorporators and first Board of Directors: D. M. Mayer, Arthur C. Black and S. F. Atwood, Peoria; William K. Boone, Lima, Ohio; Homer T. Dick, Chicago.

QUEENSTOWN CO.—It is stated that this company proposes to build "a belt road connecting the new town of Queenstown, Ala., on the main line of the Seaboard Air Line, 12 miles east of Birmingham, with the Mineral branch of the Louisville & Nashville R. R. and with the Alabama Great Southern R. R. at Trussville, Ala., and also with the Seaboard, the Central of Georgia and the Southern Railway at Leads, Ala. Propositions are desired from responsible contractors."—N. F. Thompson is Vice-Pres. and Gen. Mgr. of the Queenstown Co., 2113 First Ave., Birmingham, Ala.

RIMOUSKI INTERNATIONAL.—Application will be made to the Canadian Parliament at its next session to pass an act incorporating this company with power to build a railway from a point between the city of Rimouski, Que., and the wharf at Father Point, to Edmundston, N. B., through the townships of Duquesne, Chenier, Biencourt, Robitaille and Rouillard. It is also the intention of this company to operate vessels on the navigable waters with which the proposed railway will connect, also to build telegraph and telephone lines, hotels, parks, pleasure resorts, etc. L. M. Asselin, Rimouski, Que., is Solicitor for the applicants.

STAMFORD & NORTHWESTERN.—J. L. McSPADDEN, of Fort Worth, Tex., has been awarded contract for building the first section of this railway. Company proposes to build a line from Stamford, Tex., via Aspermont to Dickens City, Tex. Company is ready to proceed with construction as soon as right-of-way and suitable bonuses can be secured. P. G. Burns, Stamford, is Ch. Engr.

ELECTRIC RAILWAYS.

PORTLAND, ME.—John A. Jones, Lewiston, Me., Ch. Engr. of the Portland, Gray & Lewiston R. R. Co., informs us that the proposed line to be built by this company will be 28½ miles long. It will connect Lewiston, Auburn, New Gloucester, Gray, Cumberland, Falmouth and Portland. Surveys are made; right-of-way is not yet secured. E. W. Gross is Pres., Berlin, N. H. Noted last week.

NORWICH, CONN.—A. L. Potter and Chas. H. Brown, of Norwich, have applied for a charter for the Norwich & Groton Street Railway Co., which proposes to build from Norwich through Preston and Ledyard to Groton.

BROOKLYN, N. Y.—The South Flatbush Railroad Co., capital $30,000, organized to operate a street surface electric road three miles long from the Brighton Beach line of the Brooklyn Union Elevated Railroad Co. at Ave. Q to Ave. Q and Flatbush Ave., Borough of Brooklyn, has been incorporated. The directors are John O. Lamgan, Brooklyn; J. J. Baughman, New Cumberland, Pa., and L. S. Sadler, Carlisle, Pa.

NEW YORK, N. Y.—The Public Service Commission has dismissed the application of the New York, New Haven & Hartford Railroad Co. and the Harlem River & Port Chester Railroad Co. for permission to electrify the Harlem River & Port Chester Railroad. Commissioner Bassett had filed an opinion that the commission had no jurisdiction to act on such an application. The proceeding was brought before both commissions, and the commission for the 2d District concurred in the opinion rendered by Commissioner Bassett, and will take action similar to that taken by the commission for the 1st District. Commissioner Bassett decided that the railroad could make the change without obtaining the approval of either commission. Noted on Dec. 3.

NEW YORK, N. Y.—A certificate of public convenience and necessity was granted to the New York, Westchester & Boston Railway Co. by the Public Service Commission, 1st District, on Jan. 7. The Commission also granted a certificate approving the franchise to build the line, such franchise having been granted by the Board of Estimate. Certificates for the parts of the route outside the jurisdiction of the local Commission were granted by the Public Service Commission, 2d District, on Jan. 6. The Westchester Co.'s charter is owned by the Millbrook Company, and the Millbrook Company is owned by the New York New Haven & Hartford Railroad Co. The New Haven officials desire to build under the Westchester charter and not under the Portchester. Minority stockholders in the Portchester have protested against an abandonment of that enterprise. In obtaining the certificate of public convenience and necessity the Westchester Co. followed the order of the Court of Appeals, which last October handed down an opinion upholding the validity of the Westchester franchise, attacked by the Portchester minority stockholders. About $7,000,000 already has been spent on the Westchester line for right-of-way and other details, and only about $700 on the Portchester. As noted on Nov. 26, the petitions of the N. Y., Westchester & Boston Co. acted upon favorably on Nov. 26 by the Board of Estimate and Apportionment, New York, were as follows. For a change of line between 174th St. and the Harlem River on its main line and a slight modification in the Throgg's Neck branch; and also (a) permitting the use of the overhead trolley system; (b) providing the city with the right to string three cables instead of furnishing the city with two conduits; (c) permitting connections with two other railways at a distance not exceeding 2,500 ft. instead of 1,000 ft.; (d) permitting connections with the existing rapid transit railway at West Farms and the proposed rapid transit railway to be constructed on Westchester Ave.; (e) extending the time until Aug. 2, 1911, in which to complete a four-track railway from the city line to 174th St. and until Aug. 2, 1913, for the construction of the line from 174th St. to the Harlem River.

ALTOONA, PA.—John G. Burns, of Pittsburg, has been elected Pres. of the Altoona, Hollidaysburg & Bedford Springs Railway Co., succeeding Frank G. Patterson, former president and promoter of the new line.

Mr. Burns will begin the active work of building the new line for which a charter was granted more than two years ago to connect a number of the more important points east from Altoona. It is understood that the line will eventually be extended toward Pittsburg. Frederick W. Patterson, of Pittsburg, has been elected Ch. Engr.; George W. Burke has been re-elected Secy.-Treas.; Thomas Maxwell has been re-elected Vice-Pres. The directors are John G. Burns, Thomas Maxwell, George W. Burke, Robert W. Ardary, J. W. Murray, H. E. Haller, Charles Paschadag, of Pittsburg, and Thomas H. Greevy, of Altoona. The line will be about 50 miles in length.

WAYNESBURG, PA.—The Waynesburg & Monongahela Ry. Co. probably will let contract for building the first section of this projected road, from Millsboro to South Brownsville via Millsboro, a distance of 20 miles, this month. Equipment for operating the first complete section of the system will also be purchased. Construction will begin immediately after the awarding of these contracts. The line when completed will be about 95 miles in length, and it will extend through Waynesburg, Washington, Jefferson, Clarksville, Mariana, Millsboro, Fredericks-town, Mount Morris, Carmichaels, Rices Landing, Greensboro and South Brownsville. The power plant will be built at Waynesburg, and the repair shops at East Waynesburg. A subsidiary company will be organized for furnishing power for lighting and heating. Headquarters, People's National Bank Bldg., Waynesburg. Capital stock authorized, $84,000, to be increased to $3,000,-000; issued, $28,000. Company plans to purchase and operate the Sabraton Railway, which operates a line betwen Morgantown and Sabraton, three miles; to take over and construct the Uniontown, Brownsville & West Side Railway, now being built from Bridgeport through Brownsville and Union-town, and also the Brownsville, Masontown & Smithfield Street Railway, Masontown, Pa. W. J. Sheldon, 507 North Park Ave., McKeesport, Pa., is Engr.

WAWASEE, IND.—We are officially advised that the Wawasee, Logonier & Lagrange Elec. R. R. Co. has awarded contract to W. C. ROSS, Chicago, Ill., for a 5-mile section from Cromwell to Ligonier. The line, as planned, will be 20 miles long, running from Wawasee to Lagrange, Ind. J. N. Babcock is Pres., Topeka, Ind.

DES MOINES, IOWA.—We are officially informed that the Chicago, Ottumwa & Western Ry. Co.'s line will be 90 miles long, connecting Des Moines and Ottumwa. BURNS & CO., 705 Isabella Bldg., Chicago, have contract for 20 miles. BURNS & CO. will purchase all materials, but duplicate bids must be sent to T. J. Avery, Pres. of C., O. & W. Ry., Albia, Iowa. F. R. Hoar is Ch. Engr., Iowa City, Iowa. Surveys are partly made and right-of-way and capital partly obtained. Noted on Oct. 22.

HELENA, ARK.—The City Council has granted a franchise to build and operate a street railroad in Helena to J. W. Burks. Mr. Burks is industrial commissioner of the Business Men's League and will transfer the franchise to an Indianapolis syndicate, represented by Charles S. Hernly, of Indianapolis. Work is to be begun within 60 days, the first half mile track to be completed by July 1 this year, and all work completed by Jan. 1, 1911. The franchise is for 50 years. Noted on Dec. 17.

DALLAS, TEX.—J. V. Watkins, of Corsicana, Tex., and A. M. Collins and W. A. Davis, of St. Louis, are reported to have under consideration with Dallas business men a plan to build an interurban electric railway from Dallas via Waxahachie to Corsicana, with a spur ten miles long from Waxahachie to Ennis and also from Corsicana to Palestine, Tex. The latter line would be 60 miles long, and the total distance from Dallas to Palestine 117 miles. Noted on Sept. 17.

CHEHALIS, WASH.—City Council has granted a franchise for an electric railway to W. J. Patterson, Theo. Moss and A. Welsh, of Portland, Ore., who were recently granted a similar franchise in Centralia, Wash. Noted on Dec. 10.

GRANTS PASS, ORE.—Construction on the Rogue River & Oregon Southern Ry. will begin probably about April 1. As noted on Nov. 19, this railway will be about 40 miles long. Capital stock, $1,000,000. H. B. Buddenborg, 511 Marion St., Seattle, Wash., is Pres.; G. A. Collins, Grants Pass, Vice-Pres., Gen. Mgr. and Ch. Engr.; O. S. Blanchard, Denver, Colo., Secy.

PASADENA, CAL.—The Pasadena Rapid Transit Co. has been incorporated to build an electric line between Los Angeles and Pasadena. The company is capitalized for $3,000,000. Incorporators are George H. Hayes, of Los Angeles; and E. J. Sheehan, W. H. Smith, Don C. Porter, E. H. May and Horace M. Dobbins, of Pasadena.

PHOENIX, ARIZ.—The Phoenix, Tempe & Mesa Ry. Co. has been incorporated to build a local electric railway. The incorporators are Harry J. Bennett, I. Diamond, S. J. Tribolet, L. M. Hoghe, M. L. Vieux, Andrew Nielson and Geo. Hageman. Noted on Dec. 3.

WOODSTOCK, ONT.—We are officially advised that the Peoples Ry. Co. has applied for a charter to build an electric railway from Woodstock to Arthur, via Berlin and Guelph with branch from New Hamburg to Stratford, Ont., 85 miles. No other steps have been taken. Jos. McNeil, 428 Traders Bank Bldg., Toronto, is interested.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

BIDDEFORD, ME.—The Pepperell Co. is making arrangements to install a 1,500-KW. 600-volt Allis-Chalmers 60-cycle, turbo-generator set in its factory to furnish electricity to operate its plant. Additional boilers will be installed in the boiler plant.

RUTLAND, VT.—The reservoir of the Rutland Railway, Light & Power Co. will be doubled in capacity, it is stated. It is planned to raise the dam at Chittenden ten ft., and consequently to increase the capacity of the reservoir by more than 400,000,000 cu. ft. The present dam is 40 ft. high. George S. Haley, Rutland, is Gen. Mgr.

HARTFORD, CONN.—One bid was received by the Board of Contract and Supply on Jan. 4 for the lighting of the city streets. This was from the Hartford Electric Light Co., which offered the following figures for a 5-year contract: Arc lights, Titanium type, $64 a lamp supplied from underground system, and $60 per lamp if supplied from overhead system; arch lamps, Magentite type, $64 and $60; Tungsten incandescent (250 watts), $35 and $30; Tungsten incandescent (125 watts), $17 from overhead system; Tungsten incandescent (75 watts), $15 from overhead system; Tungsten incandescent (50 watts), $14 from overhead system; Tungsten incandescent (40 watts), $13.50 from overhead system. The company also offered to continue present contract, which expires June 1, 1909, at $56 a year for each arc lamp, under a 5-year contract, and $60 a year under a 1-year contract. The bids were referred to the Street Commissioners for examination and report.

NEW YORK, N. Y.—The contract for installing electric equipment in Public School No. 114 on James, Oak and Oliver Sts., Boro. of Manhattan, has been awarded by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education to COWDEN & DE YOUNG, 45 East 42d St., New York, N. Y., at $13,893.

WILLIAMSPORT, PA.—The Citizens' Electric Co. contemplates increasing the output of its plant and will install additional equipment, including boilers, engines and generators. Jonas Fischer is Pres. and Mgr.

MALVERN, PA.—The Ridley Creek Supply Co. contemplates installing a producer gas plant, additional generators and extending its transmission lines to Frazer, Pa.; also establishing a 24-hour service. George W. Fowler & Co., 30 Broad St., New York, N. Y., are Gen. Mgrs. George L. Dutton, Supt.

ELLWOOD CITY, PA.—Bids are asked until 7 p. m., Jan. 19, by W. B. McElroy, Boro. Clerk, for the complete installation of the following additional equipment for the power plant of said borough: One 140 to 150-HP. vertical or horizontal gas engine, belted or direct connected type; one 100-KW., 2-phase, 2,400-volt, 60-cycle revolving field alternating current generator, 720 r.p.m.; remodeling present switchboard.

BALTIMORE, MD.—EDWARD BRADY & SON, of Baltimore, Md., have been awarded the contract for construction of the proposed power-house for St. Joseph's Hospital. The cost of the building is estimated at $15,000 and the equipment $10,000. The plant will furnish heat and light for the hospital.

WASHINGTON, D. C.—The contract for furnishing a switchboard for the new building for the National Museum, Washington, D. C., has been awarded to the WALKER ELECTRIC CO., 2338 Noble St., at $9,475.

CHARLESTON, S. C.—Bids are asked by J. H. Dingle, City Engr., until Jan. 20, for furnishing an electrically driven vertical centrifugal pump, with a capacity of 450 gals. per minute.

DALLAS, GA.—Bids will be received for the construction of a reinforced-concrete dam and power-house to be erected on Punking Vine Creek, four miles from Dallas, Ga., for the Paulding County Electric Co., the cost of which is estimated at $64,000. W. S. Lotus, of Dallas, is Pres.; D. G. Zeigler & Co., of Atlanta, Ga., and Jacksonville, Fla., are Consult. Engrs.

WALLAND, TENN.—The Schlosser Leather Co. proposes to change motive power of its plant from steam to electricity. About 160 HP. will be developed and will include the construction of a concrete dam 150 ft. long, 11 ft. high, across the Tennessee River, three-quarters of a mile below Walland. The cost of the work is estimated at $15,000. The contract for the work has been awarded to the EASTERN CONSTRUCTION CO. W. A. P. Schorman will have charge of the work.

AKRON, OHIO.—We are officially advised that plans for an 8,000-HP. hydro-electric plant to be developed at the Cuyahoga Falls, Ohio, are being prepared by H. von Schon, Consult. Engr., Wayne County Bank Bldg., Detroit, Mich., for an Eastern syndicate. A fall of 350 ft. will be utilized, storm run-off is to be conserved in storage.

GREELEY, COLO.—We are officially advised that a 5-year contract for the City of Greeley, Colo., has been awarded to the HOME ELECTRIC LIGHT & POWER CO. The rate for all-night every-night 7.5-amp. series arc lights is $84 per year. Free lights are furnished for the City Hall and some other service. The rate for the City Library is 5 cts. per KW.-hour. As this is new lighting, the Home Co. will have to at once install necessary transformers, distribution system, lamps, etc. Robert McF. Doble, Majestic Bldg., Denver, is Consult. Engr.

ST. PAUL, IND.—The Town Board is preparing to ask for bids for furnishing material and wiring the town for electric lights. The current will be obtained from the Indianapolis & Cincinnati Traction Co.

SHOALS, IND.—The Town Board is preparing to ask for bids for the construction and equipment of an electric light plant.

DETROIT, MICH.—H. von Schon, Consult. Engr., Wayne County Bank Bldg., is preparing plans for a hydro-electric plant on the Sturgeon River in the Upper Peninsular. The dam will be 100 ft. high, the water will be diverted in pipes and the output about 6,000 KW., transmitted to the copper region near Houghton, Mich., for service in the mines. Material proposals include wooden stave and steel plate pipes, hydraulic and electric generating equipment and transmission line fixtures.

RIVERSIDE, WIS.—Arrangements are being made by the J. M. Kohler & Sons Mfg. Co. to install individual motors to operate its plant at a cost of $15,000. The contract for a switchboard has been awarded to ACKER & SCHIFFENDOR, of Sheboygan, Wis., at about $4,000.

WAUSAU, WIS.—The Wausau Gas Co. has purchased a lot adjoining its plant and is letting contracts for installation of additional apparatus at the plant, which will double its capacity. A new holder will be ordered, to hold 100,000 cu. ft. of gas. The new benches will contain six retorts. A purifying chamber will be constructed and the present set of purifiers replaced with a new set of double the capacity of the set now in use. The chamber which has up to the present been used for the purifiers, will hereafter be used for condensing and scrubbing apparatus, and will be furnished with an entirely new set of these. The remodeling and additional apparatus, which the company intends to have installed early next spring will cost about $15,000, of which amount $9,000 will be expended for the holder. L. K. Ames is Pres.

MILWAUKEE, WIS.—It is stated that corrected proofs of the specifications prepared by Robert Hunt & Co., for the municipal lighting plant have been received at the office of the Board of Public Works. After the board has formally adopted the specifications, bids for the construction of the plant will be asked for.

BELLEVUE, IOWA.—Arrangements are being made to rebuild the municipal electric light plant immediately. The equipment will include an 85-HP. suction producer gas engine, a 3-phase 60-cycle, 1,100-volt generator. A direct-connected centrifugal pump will be installed to operate the water-works system. L. Alber is City Clerk.

MOUNDRIDGE, KAN.—Bids are asked at the office of A. Ringwald, City Clerk, until Jan. 18, for furnishing material and constructing an electric light plant and water-works system. Bids will be received as follows: For furnishing material and labor (except cast-iron pipe, hydrants and valves, electrical machinery, pumping machinery, gasoline engines) and constructing water-works and electric light system; for furnishing c.-i. pipe and special castings; for furnishing hydrants and valves; for furnishing one 300-gallon per minute triplex power pump; for generator, switchboard, transformers and arc and tungsten lamps; for furnishing and erecting two 50-HP. gasoline engines; for furnishing material and erecting steel tower and tank 100 ft. high, having a capacity of 30,000 gallons. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

MARBLE FALLS, TEX.—We are officially advised that a syndicate is considering the establishment of a hydro-electric plant for transmission duty at this point. H. von Schon, Wayne County Bank Bldg., Detroit, Mich., has been retained to report on the possibilities of such development considering water storage. Surveys are being made under the direction of Mr. von Schon.

FORT SAM HOUSTON, TEX.—Bids are asked until 11 a. m., Jan. 15, by L. J. Fleming, Constr. Q. M., for the electric wiring and fixtures in ten stables, at Fort Sam Houston, Tex.

PUYALLUP, WASH.—Plans are being made to start work on the construction of a sub-station in Puyallup for the Puget Sound Electric Railway and the Tacoma Railway & Power companies. The cost of the station complete is estimated at from $35,000 to $40,000. Stone & Webster, 147 Milk St., Boston, Mass., are Gen. Mgrs.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of improving Fourth Ave. and Fourth Ave. South, from Pike to Jackson Sts., by installing arc lights, at $30,000.

BERKELEY, CAL.—Press reports state that a power station to cost $100,000, as part of the general improvements of the Bay Counties Power Co., will be commenced at once at McGee St. and Hearst Ave. The building will be used for "tying in" the low-tension feed wires and will obviate any necessity for the 60,000-volt high power wires which traverse the city north to south in Grove St. to Oakland.

OAKLAND, CAL.—The Great Western Power Co., Crocker Bldg., San Francisco, and 115 Broadway, New York, has completed its plans for the erection in Oakland of an electrical generating plant. The initial outlay will be $1,000,000. Ultimately the plant will be duplicated. This proposed plant is to be used as an auxiliary to the hydro-electric station of the Great Western Co. at Big Bend and as a reinforcement in an emergency. The station, which is to be built on Session Basin, thus giving access to tidewater, will be begun at once. Contracts for piling and other preliminary foundation work have been closed with HEALY-TIBBITTS CONSTRUCTION CO., 268 Market St., San Francisco, which will commence operations in a few days. The engines will be of the steam turbine type, capable of producing a current from the dynamos aggregating 15,000 KW. and about 20,000 HP. The present plans of the company call for an ultimate expansion of the capacity of 40,000 HP. The plant will be equipped for burning oil and it is expected that it will be in operation seven months from the time the first pile is driven.

OAKLAND, CAL.—We are officially advised that the West Coast Construction Co., Crocker Bldg., San Francisco, Cal., have let contract to the Receivers of MILLIKEN BROS., 11 Broadway, New York, N. Y., for constructing two steel stacks for the proposed power house in this city.

MANHATTAN, NEV.—The survey has been completed and the proposed power line of the Nevada-California Power Co. will be run to this district at once. By this survey it is shown that it is 36 miles from Manhattan to Miller's and from Central to Manhattan, two miles, making a total length of 38 miles. This line will be continued on to Round Mountain. J. W. White, Goldfield, Nev., is Supt.

WINNIPEG, MAN.—P[illegible] 11 a. m., Jan. 20, by [illegible] Board of Control, for s[illegible] or magnetic arc lamps [illegible] tion regulating appar[illegible] same. M. Petterson is S[illegible]

*WINNIPEG, MAN.—[illegible] Chace, Engrs., Confeder[illegible] ronto, Ont., inform us t[illegible] of Winnipeg on Jan. 7 a[illegible] contracts: The general [illegible] Bois to JOHN GUNN & [illegible] being construction require[illegible] equipment) for a 60,000-[illegible] tion with power-house [illegible] HP., at approximate cost[illegible] 000, to be completed in [illegible] struction of steel towers f[illegible] cuit, 75½ miles of transm[illegible] per lb., partly rivetted and [illegible] cars at various railway s[illegible] transmission line. The a[illegible] approximately 1,100 tons. [illegible] mission cable, 278,000 c. m[illegible] at 23½ cts. per lb., deliver[illegible] works, there were six bidde[illegible] ers, ten bidders, and for t[illegible] three bidders. Bids were [illegible] vanized and for painted [illegible] been decided that the cons[illegible] of solid rivetted towers on [illegible] with three coats of graphite[illegible] contracts for the erection [illegible] system, insulators, telephon[illegible] ery equipment for 25,000 [illegible] step-up and step-down trans[illegible] minal station in the city of W[illegible] called for soon.

TORONTO, ONT.—Following is a list of the towns in Ontario which [illegible] voted in favor of purchasing power f[illegible] the Hydro-Electric Commission of Ont[illegible] Amherst-burg, Bothwell, Chatham, [illegible], Dundas, Elmira, Essex, Glencoe, Le[illegible]ton, Nor-wich, Port Stanley, Ridge[illegible], Simcoe, Sandwich, Stratford, Tilbury, Tillsonburg, West Lorne. Adam Beck is Chn. Comn., Toronto.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—A public hearing by Board of Engineer Officers will be held in Room 95, P. O. Bldg., Boston, at 11 a. m., Jan. 21, with reference to the following changes and alterations in the bridges of the Boston & Maine R. R. over Charles River below Charles River dam, proposed to be required by the War Department to render navigation through them reasonable free, easy and unobstructed, viz.: To rebuild said bridges with stone or iron piers; to increase the height and width of the drawspans; and to equip said bridges with modern, quick-acting draws. Lieut.-Col. Edw. Burr, Corps Engrs., Member of Board.

LONG ISLAND CITY (L. I.), N. Y.—The Board of Aldermen on Jan. 5 authorized the appropriation of $110,000 for the construction of the Hunters Point Ave. bridge across Dutch Kill Creek.

ROCHESTER, N. Y.—The contract for constructing a bascule lift bridge over the Erie Canal at Allen St. has been awarded by F. C. Stevens, Supt. Pub. Wks., Albany, to the WILLIAM T. McKIBBEN CO., 1170 Broadway, New York, at $26,708. Bids were opened on Jan. 5. List of bidders noted last week. Itemized bids are given under Contract Prices.

*FAIRPORT, N. Y.—F. C. Stevens, Supt. Pub. Wks., Albany, has awarded the contract to HENRY TOSH & SON, Port Byron, N. Y., for Barge Canal Contract No. 38, embracing the construction of the substructure and superstructure of a highway bridge at Wappings, 2.5 miles from here at $17,157. Bids were opened on Jan. 5. List of bidders noted last week. Itemized bids are given under Contract Prices.

SENECA FALLS, N. Y.—The Geneva, Waterloo, Seneca Falls & Cayuga Lake Traction Co. is planning to construct a bridge across Cayuga Lake at this point to be used in connection with the line which it is to construct to Auburn, N. Y. The bridge will be 5,400 ft. long and will have three channel openings, one at each end and one in the center. At the Cayuga end it will rise above the New York Central R. R. drawbridge and the Cayuga Canal. Estimated cost, $185,000.

PITTSBURG, PA.—The Common Council on Dec. 28 passed an ordinance providing for the issue of $100,000 of bonds for constructing a bridge over the Allegheny River at the Point. M. B. Shepherd is Comr. Pub. Wks.

RICHMOND, VA.—The Henrico County Board of Supervisors on Jan. 5 awarded the contract for the erection of McClellan's bridge over the Chickahominy River to W. L. WALKER, at $3,550.

MIAMI, FLA.—The Florida East Coast Ry. Co. will construct three bridges in connection with its operations below Knights Key. A concrete substructure and steel superstructure will be built at Knights Key, 6,800 ft. at Moser Channel, 7,700 ft., and at Bahia Honda, 4,000 ft. The construction will be carried on by the company's forces. E. K. Barrett is Supt. B. and B.

PRESTONSBURG, KY.—The Chesapeake & Ohio Ry. Co., F. I. Cabell, Engr. Maintenance of Way, Richmond, Va., will probably construct a bridge across the river here.

COVINGTON, KY.—Wilbur J. Watson, of Cleveland, Ohio, is preparing plans for the construction of a viaduct over the Willow River. Estimated cost, about $38,000.

DAYTON, OHIO.—Bids will be received until Jan. 30 by T. J. Kaufman, County Auditor, for furnishing material and constructing the substructure and superstructure of the bridge over the Miami River, at Needmore road, on the line between Harrison and Mad River Townships. Bidders may submit their own plans for their bids. Estimated cost, $18,000.

CINCINNA[illegible], OHIO.—Bids are asked until noon, Jan. [illegible] by the County Commissioners, Fred Dreibe[illegible] Clk., for a culvert and approaches on [illegible]yscarver road, in Sycamore Township, [illegible] for painting iron bridge over Miami River [illegible] Venice, Crosby Township.

IRA, OH[illegible] Bids will be received until Jan. 25 [illegible] the County Commissioners, Akron, for [illegible]ishing material and rebuilding the ca[illegible]ridge at Ira. Mark D. Buckman is Co[illegible] Audr.

CLEVE[illegible], OHIO.—The Erie R. R. Co., J. Burk, [illegible]eland, Engr. M. of W., has submitted [illegible] to the city for a new bridge over the C[illegible]hoga River to replace the one destroyed [illegible]ar ago and for the elimination of the gra[illegible]rossing at Liberty St. hill.

CINCIN[illegible], OHIO.—Bids will be received by the [illegible] of County Commissioners until noon, [illegible]5, for a concrete bridge over Muddy Cre[illegible] at Addeston, Miami Township.

COLUM[illegible], OHIO.—The Board of Public Service on [illegible]an. 8 awarded the contract to the YAWMAN & CONSTRUCTION CO., of Indianapolis [illegible]d., at $87,891, for the masonry for the Mo[illegible] St. viaduct in connection with the separa[illegible]n of street and railway grades. Henry Ba[illegible]el is Ch. Engr. List of bidders noted last week.

INDIANAPOLIS, IND.—H. F. Hackedorn has submitted the lowest bid for constructing a new bridge across Lick Creek, Wayne Township, at $4,180. B. H. Miller is City Engr.

PEORIA, ILL.—The Peoria & Pekin Union Ry. is considering plans for its new bridge to be constructed over the Illinois River here. Walter E. Emery, Peoria, Ill., is Ch. Engr.

CHICAGO, ILL.—Bids are asked by the Board of Trustees of the Sanitary District of Chicago, American Trust Bldg., Chicago, until noon, Jan. 20, for the superstructures of the Chicago & Northwestern Ry Co. The work consists of the fabrication, erection and completion of the superstructures of two railroad bridges crossing the North Shore Channel of the Sanitary District of Chicago, as follows: A railroad bridge for the Mayfair cutoff of the Chicago & Northwestern Ry. Co. in Township of Niles, to be completed on or before Sept. 15, 1909; a railroad bridge for the Milwaukee division of the Chicago & Northwestern Ry. Co. at Grant St., Evanston, Cook County, Ill., to be completed on or before Sept. 15, 1909. I. J. Bryan is Clk. Advertised last week.

SUPERIOR, WIS.—The Great Northern Ry. Co., A. J. Hogeland, Ch. Engr., St. Paul, Minn., has plans for a viaduct to be constructed over the tracks at Third and Elm Sts. The city has approved the plans. Estimated cost, about $12,000.

CEDAR RAPIDS, IOWA.—Bids will be received until Jan. 28 by L. J. Storey, City Clk., for furnishing material and constructing a steel arch bridge with a reinforced-concrete floor for pedestrians and vehicles over Indian Creek at 30th St. East.

Bids will be received until Jan. 18 by L. J. Storey, City Clk., for constructing two reinforced-concrete bridges in Bever Park.

The city has engaged Ira G. Hedrick, Consult. Engr., Kansas City, Mo., to prepare plans for the reinforced-concrete bridge at 16th Ave. The bridge will be about six spans of from 80 to 90 ft. in length, with a roadway 24 ft. wide and two sidewalks, each 6 or 7 ft. wide. C. O. Huston is Comr. Pub. Improvements.

INDEPENDENCE, KAN.—The Board of Commissioners of Montgomery County has awarded the contract to the STANDARD BRIDGE CO., New York Life Bldg., Omaha, Neb., at $7,106, for the construction of a steel bridge. E. H. Stewart is County Clk.

LAUREL, MONT.—Bids for the construction of a new steel bridge over the Yellowstone River at Laurel, were opened on Jan. 1 at a joint meeting of the Boards of Commissioners of Yellowstone and Carbon Counties. The contract was awarded to the SECURITY BRIDGE CO., of Minneapolis, Minn., at $19,998.

SAN ANTONIO, TEX.—Guy Borden, Asst. Engr., is preparing plans for a viaduct across Alazan Creek, as a feeder for the proposed sewer system in Prospect Hill Improvement District.

LAWTON, OKLA.—We are officially advised that the MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., has been awarded the contract by the county for constructing a steel bridge of 100-ft. span, 14-ft. roadway, four 24-ft. steel tubes, three 14-ft., three 12-ft., and six 8-ft. steel piles at $4,800. J. M. Haynes is County Clk.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of constructing a pile bridge at First Ave. South, from Spokane Ave. to Junction St., at $22,000.

SPOKANE, WASH.—The Board of Public Works on Dec. 31 instructed J. C. Ralston, City Engr., to prepare plans for the construction of a concrete bridge at Monroe St., and for a steel viaduct at North Division St., with concrete floor and steel girders incased in concrete at railroad intersections.

SATICOY, CAL.—E. C. Converse, owner of the Keystone cattle ranch on the east side of the Santa Clara River, four miles north of here, will erect a bridge 12 ft. × 400 ft. across the river at the site of the ranch for private use. Estimated cost, $30,000.

NAMPA, IDAHO.—The City Engineer has prepared specifications for a bridge over Indian Creek on South Eleventh St.

PORT ELGIN, ONT.—Bids are asked until noon, Jan. 25, by P. A. Malcomson, County Clk., Westerton, Ont., for the erection of a steel bridge, 300 ft. long, about 2½ miles east of here.

GODERICH, ONT.—Bids are asked by D. Patterson, Comr. Huron County, Auburn, Ont., until Jan. 25, for the erection of the superstructures of two steel bridges.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—We are officially advised that Mrs. Fannie E. Morrison will erect an 8-story mercantile building, to be known as the Demmon Building, at the corner of Harrison Ave. and Beach St. It will extend to the alley in the center of the block. The exterior will be of dark red Harvard brick, with a high base at the street line, of polished green granite, the string courses, the sills and cornice being of granite composite. There will be a steel frame of the skeleton type, the columns and the piers sustaining all the floor loads and the exterior walls, the floors being constructed with lines of steel girders, carrying reinforced-concrete spans of about 15 ft., making the building fireproof. The contract for the erection of the Demmon Building has been let to WHIDDEN & CO., 155 Milk St., Boston, and requires the building to be ready for occupancy not later than Oct. 1, 1909. It is the intention of the contractors to begin to raze the present buildings Jan. 1. The structure will cover 8,173 sq. ft. of land. The new structure is estimated to cost about $300,000. The Receivers of MILLIKEN BROS., 11 Broadway, New York, have the contract for the structural steel. C. H. Blackall, 20 Beacon St., is Arch.

The demolition of a number of buildings on Avon and Bedford Sts. will be begun, to make room for a building to be occupied by the Jordan, Marsh Co., and it may be that a portion of the new building may be ready for occupancy by the fall. The new building will be nine stories high, extending from Avon to Bedford Sts. On Avon St. it will extend 222 ft. and will include the present numbers 19 to 51. On Bedford St. the distance of the front will be 223 ft. and will include what are now numbered 22 to 48. Winslow & Bigelow, Phillips Bldg., Boston, are Archs. The material probably will be terra cotta with framework of steel construction, and the ground floor will cover about 30,000 sq. ft. It is probable that the building will be started in March.

ATTLEBORO, MASS.—We are official advised that Fontaine & Kinnicutt, Archs., 45 Commercial St., Woonsocket, R. I., have prepared plans for alterations to parochial school and convent in connection with the Church of St. Joseph, at Attleboro. Rev. N. A. Messier, Pastor. Plans will be ready for bidders after Jan. 18. Contract will be let about Feb. 1.

BRISTOL, CONN.—The Board of Fire Commissioners have prepared plans for a brick fire engine house, two stories high, and will recommend the erection of such a building at a special town meeting to be held soon.

NEW BRITAIN, CONN.—We are advised by William H. Cadwell, Arch., 213 Main St., that a proposition is under consideration to construct a fireproof 5-story hotel, 90 × 125 ft. The estimated cost of the building is $75,000; equipment, $20,000.

STAMFORD, CONN.—We are officially advised that bids were received by the Board of Education on Jan. 4 for constructing a 3-story school, 36 × 90 ft. Boring & Tilton, 32 Broadway, New York, N. Y., are Archs. BENJAMIN HARRIS has the general contract; THOMAS DUNNE has the contract for the mechanical equipment. Estimated cost, $55,000.

NEW YORK, N. Y.—Townsend, Steinle & Haskell, Archs., 34th St. and Broadway, advise us that they will let the general contract next week for a 6-story elevator apartment house to be built for the Zengendal Realty Co., 135 Broadway, James R. Deering, Pres., at the corner of Broadway and 135th St. It is to be of brick with trimmings of limestone and terra cotta, and will have 35 suites of apartments. It is to cost $130,000.

A theater is to be erected at corner of Seventh Ave. and 47th St. Weber & Rush, theatrical managers, 1402 Broadway, are to be the owners. The theater is to be on the ground floor of a 10-story building, the other floors of which will be used for offices. There will be a frontage of 100 ft. on Seventh Ave. and 140 ft. on 47th St. Building operations will begin early in the spring, and the theater, which is to be called The Apollo, will be ready for occupancy in the fall. Working plans and specifications have already been prepared by William H. McElfatrick, Arch., 1402 Broadway.

We are officially informed that the Iron Master Realty & Construction Co., 93 Nassau St., has had plans prepared by Samuel Sass, Arch., Park Row Bldg., for three 6-story brick and stone tenements, with tin or plastic slate roof, 35.10 × 87.11 ft., to cost $165,000.

NEW YORK, N. Y.—We are officially advised that ANDREW J. ROBINSON, 123 East 23d St., has been awarded the general contract to erect a 12-story and basement loft and automobile storage building, to be erected for the B. F. Goodrich Co., 66 Reade St., at 1780 and 1782 Broadway, near 57th St. It is to have a frontage of 53.10 ft. and a depth of 106 ft. The architects are Howard Shaw and Waid & Willauer, associated, 156 Fifth Ave. The cost will be $250,000.

Maximilian Zipkes, Arch., 147 Fourth Ave., has drawn plans for the erection of a 6-story apartment and store building, to be erected at the corner of 173d St. and Washington Ave. for Louis E. Kleban. The building will accommodate 35 families. It will have four stores. The cost will be about $85,000.

Plans have been filed for an 8-story brick and steel office, studios and bachelor apartments, 50 × 88 ft., to cost $260,000, for J. H. Monheimer, 108 West 86th St. C. W. Buckham, 307 Fifth Ave., is Arch.

Henri Fouchaux, Arch., 107 Hudson St., advises us the estimates will be taken about March 15 for constructing three 5-story residences to be built at 44, 46 and 48 West 86th St. by the Central Building & Investment Co., Hyman Sonn, Pres. The houses will be 25 ft. front and 64 ft. deep, with 4-story extensions in the rear, and will be fitted with elevators. The facades will be of the Italian Renaissance design, of brick, with limestone trimmings. The three houses will cost $135,000.

NEW YORK, N. Y.—We are officially advised that four 6-story apartment houses are to be built in 144th St., 200 ft. east of Broadway, for the Young Realty Co., Charles H. Wallis, Pres., 144th St. and Broadway. They will have a frontage of 87½ ft. and a depth of 86.11 ft., with facades of brick and ornamental stone, and will cost $100,000 each. Thain & Thain, 4 East 42d St., are Archs. Estimates are being taken.

Herts & Tallant, and A. S. Gottlieb, Archs., 113 East 19th St., have filed plans for making over the 7-story private school building, 48 and 50 West 54th St., which was erected in 1906, into a 9-story clubhouse for the City Athletic Club, Frederick Lewisohn, Pres. The basement of the remodeled structure will contain the bowling alleys, and on the main floor will be a 2-story library. The third floor will be fitted as a billiard hall, and there will be a 2-story swimming pool 60 ft. long and 20 ft. wide on the fourth and fifth floors, the next three stories containing the athletic floors and running tracks, and the roof being finished with two squash courts, with dressing chambers adjoining. The building will have a facade of ornamental stone. The improvements are to cost $50,000.

NEW YORK, N. Y.—We are officially advised that Dodge & Morrison, Archs., 82 Wall St., have let contract for the structural steel for a theater to be built at Coney Island, to the Receivers of MILLIKEN BROS., 11 Broadway, New York.

BUFFALO, N. Y.—St. Luke's German Evangelical Congregation, Rev. W. F. Werheim, Pastor, has had plans prepared for a church to be built of stone on the site of the present frame structure at the corner of Richmond Ave. and West Utica St. Cost, $50,000. Robert Wallace, Builders' Exchange, Buffalo, is Arch.

OSWEGO, N. Y.—We are officially advised that BARNETT & CO., of Oswego, have been awarded the contract for building the vaults in the Second National Bank.

SYRACUSE, N. Y.—The Onondaga Hotel Co., Charles Snow, Secy., Snow Bldg., Syracuse, has had plans prepared for the construction of an 11-story hotel, 132 × 159 ft., steel frame, with hollow tile fireproofing, brick and terra cotta exterior, with stone trimmings, to be erected on Jefferson St. Estimated cost, $800,000. Eisenwein & Johnson, 777 Ellicott Sq. Bldg., Buffalo, are Archs., associated with Russell & King, 602 Snow Bldg., Syracuse. Bids will be received about Jan. 20.

ROCHESTER, N. Y.—J. H. Moore, Cook Opera House, has had plans completed by Leon H. Lempert & Son, Archs., Cutler Bldg., for a 5-story and basement theater building, 150 × 100 ft. with an L. The structure will have steel frame, stone, brick and concrete construction and will be built on Clinton Ave., South, at a cost of $350,000.

WATERVILLE, N. Y.—The Roman Catholic congregation is having plans prepared by Melvin H. Hubbard, Arch., 82 Arcade Bldg., Utica, N. Y., for a 1-story and basement brick and stone church, 68 × 111 ft., with slate roof. Bids will be received by the architect about March 1.

RUTHERFORD, N. J.—We are officially advised that the following contracts have been let for construction of a bank building here, to cost about $50,000, for the Rutherford National Bank: General contract, CLAUS AHERNS & CO., East Rutherford; vaults, HERRING-HALL-MARVIN SAFE CO., 400 Broadway, New York; interior cabinet work, R. B. FERGUSON, 252 Lee Ave., Brooklyn, N. Y.; bronze work, FEDERAL BRASS & BRONZE CO., Astoria, L. I.; interior marble, S. KLABER CO., 126 West 34th St., New York. Mowbray & Uffinger, 92 Liberty St., New York, are Archs.

MONTCLAIR, N. J.—We are officially advised that the WILMARTH BUILDING CO., 1170 Broadway, New York, has secured the general contract at $86,820, for a 2-story grammar school building for the Board of Education, Edward Madison, Secy., Montclair.

BRIDGETON, N. J.—Watson, Huckel & Co., Archs., 1211 Walnut St., Philadelphia, have let contract to HARRY H. HANKINS, Bridgeton, at $83,800, for a court-house for the Cumberland County Board of Freeholders, Bridgeton.

PASSAIC, N. J.—The general contract has ben let by Seymour & Paul A. Davis, Archs., 1600 Chestnut St., Philadelphia, to THOMPSON & STILES, 1524 Pacific St., Atlantic City, N. J., for a 3-story high school building for the Board of Education, Passaic, at $242,000.

ATLANTIC CITY, N. J.—Howard A. Stout, Arch., Bartlett Bldg., has completed plans for an apartment house which is to be erected for E. B. Koopman on South New York Ave. near Westminster Ave. The plans call for a 5-story, fireproof building, of brick, steel and concrete construction. Provision has been made for a heating plant and ventilating system. The building will contain about 20 apartments, located above stores which will occupy the lower floor. It is estimated that the building will cost $50,000.

GETTYSBURG, PA.—Plans are being prepared by Herman Miller, Arch., 1420 Chestnut St., Philadelphia, for a 1-story bank building for the Gettysburg National Bank, William McSherry, Chn. Bldg. Com., Gettysburg. Cost, $50,000.

NEW CASTLE, PA.—The Board of Education has decided to have plans prepared for a school building to cost from $150,000 to $200,000. W. H. Chain, 60 East Washington St., is Secy. W. G. Eckles is Arch., Lawrence Savings and Trust Bldg.

PHILADELPHIA, PA.—The proposed 10-story building for the People's Trust Co., which has been designed by Sauer & Hahn, Archs., 1208 Chestnut St., to be built at the corner of Twelth and Arch Sts., will be 45 × 134 ft. The building will be constructed of reinforced concrete construction or steel, with reinforced concrete floors, and will be fireproof throughout. The exterior will be of terra cotta. A lighting and heating plant is included in the plans. Estimated cost, $170,000.

It is stated that the William Penn Charter School will build a group of school buildings, at Germantown. The buildings will cost between $500,000 and $600,000. Milton B. Medary, Arch., will prepare the plans and specifications.

PITTSBURG, PA.—A contract was let on Jan. 5 to the WILLIAM MILLER & SONS CO., 28 Federal St., by Thomas Kenyon & to erect a 4-story theater and store building on the site of the old Kenyon Hall on Federal St., to cost $150,000. Plans for the building were prepared by William Kaufman. The building will be of steel and brick construction, with a terra cotta front. The auditorium of the theater will be on the first floor, with two balconies, and is planned to seat about 1,800 people.

CLARION, PA.—We are officially advised that contract was let to WILLIAM MILLER & SONS CO., 28 Federal St., Pittsburg, Pa., by Charles J. Rieger, Arch., People's Savings Bank Bldg., 307 Fourth Ave., Pittsburg, Pa., Jan. 5, for the erection of a 12-room school building to be erected on lot situated at the corner Summit St. and Shaw Ave., Boro of Clairton, Pa. Thomas J. Byrne is Secy. School Bd. Cost, $65,000; equipment, $10,000.

LOCH RAVEN, MD.—Plans and specifications for the administration building and three cottages to be erected on the grounds of the Maryland School for Boys, at Loch Raven, will be drawn and prepared by Wyatt & Nolting, Archs., Keyser Bldg., Baltimore. The proposed buildings will be of heavy buff brick. The administration building will have stone trimmings, and the foundation will be of concrete.

BALTIMORE, MD.—The BIEL CONSTRUCTION CO. has been awarded the contract for the erection of the proposed summer home to be built at Notch Cliff by the School Sisters of Notre Dame. The home will be built on the property recently purchased from the estate of John K. Cowen. The tract contains about 200 acres. The contract provides for a main entrance of stone and frame construction, and a variance in size of from one to three stories. The designs and plans have been completed by Thomas C. Kennedy, Arch., 225 Cortland St., Baltimore. Cost, $60,000.

WASHINGTON, D. C.—B. B. Bradford, Bradford Bldg., Washington, will erect an apartment. It will be an 8-story fireproof structure, 65 × 60 ft., with hot-water heat, electric lighting, elevator. Cost, $100,000.

*WASHINGTON, D. C.—Bids will be received at Room 212, District Bldg., until 2 p. m., Feb. 16, for coping for the Municipal Building.

DANVILLE, VA.—Bids will be received about Jan. 15 by C. M. Robinson, Arch., Richmond, for a 16-room and assembly hall brick or concrete school building, to be built on Holbrook Ave., Danville. Cost about $40,000. F. H. Wheatley, Supt. of Schools.

FAYETTEVILLE, N. C.—Bids are asked until Jan. 21, by the Southern Life Insurance Co. for erection and completion of a 5-story office building in accordance with plans and specifications by W. B. Rose, Arch., Greensboro, N. C. Cost, $50,000.

*SALISBURY, N. C.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 17, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Salisbury.

CHARLESTON, S. C.—The Sisters of Mercy have had plans prepared, it is stated, by Todd & Benson, and D. C. Barbot, Associate Archs., all of Charleston, for a convent to cost about $45,000.

GAINESVILLE, GA.—Contract has been let by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., to the WILMARTH BUILDING CO., 1170 Broadway, New York, N. Y., at $60,000, for constructing a public building here. Time, Dec. 31, 1909.

GAINESVILLE, FLA.—Bids were received as follows on Jan. 11 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Gainesville, Fla.: Norcross Bros. Co., Worcester, Mass., $175,900; Gude & Co., Atlanta, Ga., $180,000; Charles Hoert & Son, Grand Rapids, Mich., $178,000; King Lumber Co., Charlottesville, Va., $162,900; Miles & Bradt Co., Atlanta, Ga., $183,500. May 1, 1910.

JACKSONVILLE, FLA.—We are officially advised that contracts have been let as follows for constructing a building here for the Atlantic National Bank: General contract, JAMES STUART, 341 Sixth Ave., Pittsburg, Pa.; interior cabinet work, GEORGE W. MULLER, Roseland, Atlanta, Ga.; bronze work, JOHN WILLIAMS, 557 West 27th St., New York, N. Y.; interior marble, BATTERSON & EISELE, Times Bldg., New York. Mowbray & Uffinger, 92 Liberty St., New York, are Archs.

KEY WEST, FLA.—Bids were received as follows Jan. 9 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a storehouse at the Naval Station, Key West, Fla.: Snare & Triest Co., 143 Liberty St., New York, $69,800; Algernon Blair, 26 South Perry St., Montgomery, Ala., $70,000; Penn Bridge Co., Bond Bldg., Washington, $59,989; Grant Wilkins, 23½ Whitehall St., Atlanta, Ga., $59,000.

ALEXANDRIA, LA.—On Dec. 28 the City Board of Aldermen met to consider bids for the erection of the proposed city hall. The following bids were received: Constantino, Reis & Garen, New Orleans, $79,990; Carl A. Nelson, Kansas City, $58,348; James Stewart & Co., New Orleans, $71,000; Rubush Dabbs Construction Co., Meridian,

Miss., $64,211; C. D. Stewart, Baton Rouge, $60,310; SOUTHERN BUILDING CO., Louisville, Ky., $52,087 (awarded contract); W. R. Stewart, Little Rock, $67,700; Hugh McLellan, Little Rock, $58,500.

MURFREESBORO, TENN.—Bids were received as follows Jan. 9 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Murfreesboro, Tenn.: George Moore & Sons, Nashville, Tenn., $53,000; Dixie Construction Co., Murfreesboro, Tenn., $58,750; William F. Henry, Murfreesboro, Tenn., $38,760; Algernon Blair, Montgomery, Ala., $49,000; E. A. Steininger Construction Co., St. Louis, $58,762; Nashville Building Co., Nashville, Tenn., $56,980; King Lumber Co., Charlottesville, Va., $47,000; Gude & Co., Atlanta, Ga., $50,000.

NASHVILLE, TENN.—Bids are asked by the Union Bank & Trust Co., until Jan. 20 (an extension of time from Jan. 14) for constructing a 5-story marble bank and office building for the Union Bank & Trust Co., Nashville. Estimated cost, $150,000; equipment, $25,000. Mowbray & Uffinger, 92 Liberty St., New York, are Archs.

JOHNSON CITY, TENN.—It is reported that an office building will be erected here by George L. Carter, to cost $50,000.

JOHNSON CITY, TENN.—Bids were received as follows Jan. 7 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Johnson City, Tenn.: King Lumber Co., Charlottesville, Va., $64,800; David Getaz Sons & Co., Knoxville, Tenn., $72,100; John G. Unkefer, Minerva, Ohio, $70,255; Gude & Co., Atlanta, Ga., $78,000; Miles & Bradt, Atlanta, Ga., $75,000; M. P. Wells, Philadelphia, $61,409; Borcher, Wardrup & Co., Knoxville, Tenn., $68,700; E. A. Steininger Construction Co., St. Louis, Mo., $79,626; Smith & Wilson, Bristol, Tenn., $69,796; Wilmarth Building Co., 1170 Broadway, New York, $75,956; D. J. Phipps, Newport News, Va., $64,977.

MEMPHIS, TENN.—The Riechman-Crosby Hardware Co., John Riechman, Pres., has purchased a site, 75 × 200 ft., on which to erect a warehouse, 4½ stories high, of brick and stone, with concrete basement, electric freight and passenger elevators, sprinkler system for fire protection. Estimated cost, $75,000.

YOUNGSTOWN, OHIO.—Owsley, Bouchleer & Co., Archs., Wick Bank Bldg., will soon have plans ready for bids for a 3 and 4-story jail building for the Commissioners of Mahoning County. Cost, $150,000.

COLUMBUS, OHIO.—Plans have been completed by Howard, Inscho & Merriam for a 6-story business block, containing lodge rooms, banquet hall, auditorium, bowling alleys, billiard room, etc., for the Columbus Aerie of Eagles. Estimated cost, $60,000.

CINCINNATI, OHIO.—Tietig & Lee, Archs., Commercial Tribune Bldg., have been retained by the Board of Education, C. W. Handman, Secy., it is stated, to prepare plans for the 3-story 14th District School building. Garber & Woodward, Archs., Neave Bldg., have been retained to prepare plans for the 3-story Douglass School building and Samuel Hannaford & Sons, Archs., Hulbert Block, have been retained to prepare plans for the 2-story Winton Place School building. The schools will cost $200,000, $150,000 and $100,000, respectively.

NORTHFIELD, OHIO.—Bids are asked by the Trustees of the Township of Northfield, until noon, Jan. 16, for constructing a town hall. J. F. J. Richey is Pres.; The Moore Architectural & Engineering Co. prepared the plans.

WARREN, OHIO.—Bids were received as follows on Jan. 12 at the office of James Knox Taylor, Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Warren, Ohio: Walter G. Harper Lumber Co., Meadville, Pa., $53,500; James D. De Vault & Son, Canton, Ohio, $50,436; McHenry-Beatty Co., East Liverpool, Ohio, $54,826; M. P. Wells, Philadelphia, $55,587; A. T. Wendling, Massillon, Ohio, $64,138; Niles Lumber Co., Niles, Ohio, $55,925; John G. Unkefer & Co., Minerva, Ohio, $49,880; Durolithic Co., Buffalo, N. Y., $49,274; Cleveland Fire Proof Construction Co., Cleveland, Ohio, $51,645. Time, Feb. 1, 1910.

INDIANAPOLIS, IND.—The Board of Public Works has rejected the bids received for the construction of the contagious disease hospital. Modified plans have been ordered on which bids will be asked at once. The lowest bid received was that of Henry Dollman, at $76,897. Noted last week.

BLOOMINGTON, IND.—Bids are asked by the Central Methodist Episcopal Church until Jan. 28 for construction of a church building to cost from $60,000 to $65,000. William H. Adams is interested.

MUNCIE, IND.—We are officially advised that Cuno Kibele, Arch., Johnson Bldg., has completed plans for a 3-story city hall, 115 × 125 ft., for the City Hall Building Committee, Leonidas Guthrie, Mayor. The building will be constructed of Bedford stone, brick, concrete and granite, and will cost $125,000. Bids will be called for later.

ELKHART, IND.—Plans have been ordered for the construction of a parochial school building in this city. Rev. Father Panson is Pastor, and Gault & Gault, of Terre Haute, Ind., are Archs.

FORT WAYNE, IND.—We are officially advised that the Trustees of the English Lutheran Church will receive bids as soon as plans are completed for the erection of a $35,000 church; also for a pipe organ. Five architects are making competitive plans.

DETROIT, MICH.—Owen & Co., 38 Gratiot Ave., contemplate erecting an 8-story and basement store building, 92 × 105 ft., estimated to cost $150,000, it is stated. Architect has not been selected.

GRAND RAPIDS, MICH.—Bids are asked by Thomas D. Perry, Secy. Bd. of Education, until noon, Feb. 15, for the construction of a high school building; also for the installation of plumbing. Robinson & Campau, Houseman Bldg., are Archs.

PARIS, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., received bids as follows on Jan. 6 for the construction of a post-office at Paris, Ill.: Barnes Bros., Hamilton, Ohio, $69,700; August Ohm, Terre Haute, Ind., $75,500; Mark P. Wells, Philadelphia, $67,781; M. Yeager & Sons, Danville, Ill., $84,149; Giacomo Maffiola, Rockford, Ill., $58,825.

MILWAUKEE, WIS.—Leenhouts & Guthrie, 104 Wisconsin St., have prepared plans for an 8-story Y. M. C. A. building, 150 × 101 ft., to cost $250,000.

SHENANDOAH, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 15, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Shenandoah.

KANSAS CITY, KAN.—W. W. Row, 715 Minnesota Ave., will prepare plans for school buildings for the Board of Education for which $250,000 of bonds were voted recently. F. G. Harsman is Secy.

ST. LOUIS, MO.—Bids are asked until Jan. 15 by the Board of Public Improvements, A. J. O'Reilly, Pres., for an insane asylum building, three stories and basement, cost $65,000 (Milligan & Wray, 721 Olive St., Archs.) Other buildings for which proposals will be opened at the same time include Engine House No. 37, $22,000; Engine House No. 47, $20,000; Carr Sq. comfort station, $16,000; Forest Park foot bridge, $2,500; stable, etc., Female Hospital, $5,000; stable, insane asylum, $1,500.

The work contemplated for 1909 includes City Hospital extension, $800,000; City Hospital nurses' quarters, $85,000; municipal building, 13th and Market Sts., $2,000,000; municipal bridge, $3,500,000; Engine House No. 48, $20,000; two other engine houses, $40,000; stable, Park Department, $15,000; band stand for St. Louis Pl., $3,500; building for Hyde Park, $3,000.

Mariner & La Beaume, 721 Olive St., St. Louis, have prepared plans for an apartment house to be erected at 525 Clara Ave. It will have three stories; six apartments of eight rooms each, brick and stone construction, terra cotta trimmings. It will be 88 × 70 ft. Cost, about $75,000. Kingsbury Realty Co. will supervise construction.

The Holbrook-Blackweider Real Estate Trust Co., 812 Olive St., has plans completed for the erection of a commercial building at 410-12 North Seventh St. The property has a frontage of 37 ft. by a depth of 75 ft. The building will have five stories and will cost $40,000.

SPRINGFIELD, MO.—Owners of the $100,000 Baldwin Theater, which was destroyed by fire on Jan. 6, announce that they will rebuild the theater at once. The 3-story store and apartment building adjoining the theater which was destroyed also will be replaced by a larger structure. The Duncan studio, owned by Mrs. G. W. Sittler, of Memphis, which was partly destroyed, will be rebuilt. The fireproof Colonial Hotel was damaged to the extent of $5,000 by flames from the theater. The total loss from the fire will amount to $200,000.

KANSAS CITY, MO.—It is stated that Barnett, Haynes & Barnett, Archs., Frisco Bldg., St. Louis, have let general contract to the C. L. GRAY CONSTRUCTION CO., Kansas City, for a 12-story hotel for the Mid-Continent Hotel Co., Kansas City. Estimated cost, $850,000.

The Orear-Leslie Investment Co. will erect a 10-story office building, 31 × 142 ft. of stone and brick. Estimated cost, $150,000. James A. Priestly is Arch.

KANSAS CITY, MO.—Walter P. Birmingham has been selected to prepare plans for a comfort station to cost $15,000.

OKLAHOMA CITY, OKLA.—Mrs. Augusta Wright has decided to erect a 5-story building at the corner of Main and Harvey Sts., to cost $85,000. The structure will be 140 × 50 ft. and probably will be of reinforced concrete.

HOUSTON, TEX.—Sanguinet, Staats & Seuter, Archs., First National Bank Bldg., have let general contract to the STEWART CONSTRUCTION CO., Chamber of Commerce Bldg., St. Louis, Mo., for constructing an 8-story brick, stone, steel and terra cotta band and office building, 50 × 130 ft., for the First National Bank, Houston. Cost, $250,000.

HOUSTON, TEX.—We are officially advised that the Receivers of MILLIKEN BROS., 11 Broadway, have been awarded the structural steel contract for the proposed Harris County court-house. The general contract has been awarded to the H. L. STEVENS CO., of Knoxville, Tenn., and Houston. Estimated cost of building, $500,000. Noted on Sept. 24.

SAN FRANCISCO, CAL.—A permit has been granted H. B. Martin to erect a 2-story and basement brick restaurant building on the north side of O'Farrell St., 82 ft. east of Powell St., on the site of the Fischer Theater, the cost of which will be about $45,000.

A building permit has been issued to O. A. Craemer by the Board of Public Works for a 5-story brick apartment house at the corner of Bush and Taylor Sts., to cost about $60,000.

LOS ANGELES, CAL.—We are officially advised that at an estimated expense of $160,000, a tuberculosis pavilion, a maternity ward and an administration building will be added to the County Hospital's equipment the coming year. The building will have three stories. Plans for the new buildings are being prepared by Frank Hudson, Arch., Stimson Bldg., Los Angeles, and have been submitted to the Supervisors. Dr. D. C. Barber is Supt.

SAN FRANCISCO, CAL.—The work of clearing the ruins of the City Hall has been started by the W. B. ABBITT CO., Monadnock Bldg., who secured the contract for demolishing the remains of the dome. Robert J. Loughrey, Secy. Bd. Pub. Works, Mechanics' Sevings Bank Bldg., has been directed to advertise for bids for the destruction of the remaining portion of the Larkin St. wing. Under the terms of the contract the contractor must agree to commence work within ten days from the date of signing the contract and complete it within 240 working days.

ELKO, NEV.—Bids are asked by the Board of Supervisors of Elko County until Jan. 16 for the erection of a court-house and jail building, for which $100,000 has been appropriated. A. G. Dawley is Clerk.

MONTREAL, QUE.—Charles Bernier, Arch., 70 St. James St., has prepared plans for the erection of a school for the Catholic School Commissioners. Estimated cost, $60,000.

REGINA, SASK.—Bids are asked by the City of Regina, until 5 p. m., Feb. 1, for general construction of the Regina General Hospital. Myer J. Strum, 84 La Salle St., Chicago, Ill., is Arch.; J. Kelso Hunter is City Clerk.

EDMONTON, ALTA.—McDougall & Secord, fur traders and general merchants, will erect 55 cottages on their property here in the spring, it is stated.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BRIDGEPORT, CONN.—The Bridgeport Hydraulic Co. has decided to improve its underground system by laying 24 and 30-in. mains.

CATSKILL, N. Y.—Preliminary plans have been prepared by Knight & Hopkins, Consult. Engrs., of Rome, N. Y., for the Potuck Creek gravity water system.

MOUNT MORRIS, N. Y.—The Board of Trustees on Jan. 7 engaged J. F. Witmer, C. E., Chapin Block, Buffalo, N. Y., to prepare plans and specifications for a new water-works system. Estimated cost, $50,000.

TROY, N. Y.—The Board of Contract and Supply on Jan. 5 directed E. L. Grimes, City Engr., to prepare plans and specifications for the construction of the new Quackenkill reservoir. Estimated cost, between $100,000 and $150,000.

*NEW YORK, N. Y.—Bids were received on Jan. 7 by the Board of Water Supply for contract 36 for the construction of the north half of the Wallkill Pressure Tunnel, a tunnel in rock crossing under the valley of the Wallkill River, with three shafts 350 to 480 ft. in depth, and a short stretch of plain concrete conduit, known as cut-and-cover aqueduct, and for contract 37, for the construction of the south half of the Wallkill Pressure Tunnel, with three shafts 350 to 400 ft. in depth, and a short stretch of plain concrete conduit, known as cut-and-cover aqueduct. The pressure tunnel will be circular, 14½ ft. inside diameter, and the aqueduct, 17 ft. high by 17½ ft. wide inside. The work is located in the towns of New Paltz and Gardiner, Ulster County. Bids were asked for each contract separately and for both contracts combined. The bids follow. Contract 36: American Pipe Mfg. Co., Fidelity Bldg., Philadelphia, Pa., $1,889,855; Reinhart & Dennis, Washington, D. C., $1,986,290. Contract 37: American Pipe Mfg. Co., $1,803,126; Arthur McMullen, 13 Park Row, New York, $1,881,622; Gore-Meenan Co., 206 Broadway, New York, $1,852,425. Contracts 36 and 37 combined: American Pipe Mfg. Co., $3,640,625; John C. Rogers, 121 West 125th St., New York, $3,700,312; MacArthur Bros. Co. and Mason & Hanger Co., Pine St., New York, $3,724,679; Bradley Contracting Co., 1 Madison Ave., New York, $3,832,640; Booth & Flynn, Ltd., Pittsburg, Pa., $3,680, 167; Dignon Contracting Co., 60 Wall St., New York, $3,722,825; S. Pearson & Son, Inc., Long Island City, $3,741,778; Croton Falls Construction Co., $4,269,487.

FORT HANCOCK (Sandy Hook post-office), N. J.—Bids will be received by W. J. Hawkins, Constructing Q. M., U. S. A., until Jan. 21 for installing water and sewer connections to certain buildings at the post.

LYNDHURST, N. J.—Bids will be received by the Township Committee, John F. Woods, Clk., until Jan. 18 for 14,750 ft. of 10, 6 and 4-in. bell and spigot c.-i. water pipe and 47 10, 6 and 4-in. gate valves and 20 fire hydrants. R. W. Watson is Township Engr., 90 Park Ave., Rutherford, N. J.

KINGSLAND (Rutherford post-office), N. J.—Bids will be received by the Township Committee until Jan. 18 for the construction of water-works.

*SALTSBURG, PA.—Bids are asked by the Council until 7 p. m., Feb. 1, for materials and labor for constructing a complete water plant for the Borough of Avonmore. Plans and specifications will be on file after Jan. 18 with Prof. W. E. Smeltzer, Avonmore, Pa., and with Robt. H. Wilson, C. E., Saltsburg, Pa.

PORT DEPOSIT, MD.—The Jacob Tome Institute, 401 American Bldg., Baltimore, Md., will construct an additional reservoir to supply water for the school.

WASHINGTON, D. C.—BRIDGMAN BROS. CO., 1426 Washington St., Philadelphia, Pa., have secured the contract for furnishing pipe fittings and valves for the new building for the National Museum, Washington, at $6,573. Bids were opened on Dec. 17. List of bidders noted last week.

EMPORIA, VA.—HOLLAND & MYERS and STAMPER BROS. & RAGLAND, Richmond, Va., have secured the contract for constructing a 700-ft. long, 36-ft. high, granite and cement dam across the Meherrin River, for the Greenville Water Power Co. Estimated cost, about $150,000.

RICHMOND, VA.—The Council Committee on Water has decided to ask the Council to authorize the construction of a flume from the settling basin to the pump house. Estimated cost, about $75,000. M. R. Sherrard, of Newark, N. J. [illegible] of Richmond, Consult[illegible] pleted their report an[illegible] c.-i. pipe.

BARBOURSVILLE, [illegible] Utilities Co., L. L. Do[illegible] struct a combined wat[illegible] heating plant.

CHARLESTON, S. C. [illegible] until Jan. 20 by J. H[illegible] for a 450-gallon per mi[illegible] pump, with electric mo[illegible]

CLEARWATER, FLA. [illegible] ceived a tonce for the c[illegible] works here. Estimated [illegible] Thomas J. Sheridan is C[illegible]

TAMPA, FLA.—The T[illegible] Co., Chester McFarland, [illegible] to extend and improve [illegible] tem here.

INDIANOLA, MISS.—H[illegible] ham, 705 Maison Blan[illegible] La., have been retained [illegible] neers and will prepare [illegible] ments to the water-work[illegible] timated cost, $15,000. B[illegible] in about 60 days.

CINCINNATI, OHIO.—T[illegible] Service on Dec. 26 award[illegible] BEL the contract to exte[illegible] in Lick Run road a distan[illegible] 35 cts. per lin. ft. for S[illegible] cu. yd. for brick-work, a[illegible] for concrete work.

*EVANSVILLE, IND.—T[illegible] the construction of the [illegible] plant here has been award[illegible] the NORWOOD ENGINE[illegible] Florence, Mass., at $246,0[illegible]

SILVIS, ILL.—Bids will [illegible] by the Board of Local [illegible] about 60 days for laying [illegible] constructing sewers. The [illegible] standpipe will be let soon [illegible] and sewer extensions. H[illegible] Moline, Ill., is Engr.

HERRIN, ILL.—The cont[illegible] and casing a deep well h[illegible] by the city to McCANN Bros., of Herrin, at $2.50 per ft. W. T. Pierce is City Engr.

KENOSHA, WIS.—Bids will be received by the Board of Water Commissioners until Feb. 2 for one horizontal cross-compound high-duty pumping engine, with a capacity of 6,000,000 U. S. gallons in 24 hours. H. H. Moth is Supt.

BELLEVUE, IOWA.—See Item under Light and Power Plants.

MINNEAPOLIS, MINN.—We are officially advised that bids were received as follows on Jan. 8 by the city for water-works construction for 1909: For 1,784 tons of c.-i. water pipe, per ton: Massillon Iron & Steel Co., Rookery Bldg., Chicago, Ill., $25.85; U. S. Cast-Iron Pipe & Foundry Co., Rookery Bldg., Chicago, Ill., $26.35; J. B. Clow & Sons, Franklin and Harrison Sts., Chicago, Ill., $26.90. For 125 tons of special castings, per ton of 2,000 lbs.: North Western Foundry Co., 312 Tenth Ave., South Minneapolis, $47; Union Iron Works, Minneapolis, $51; Massillon Iron & Steel Co., Chicago, $50; A. D. Hays & Co., Minneapolis, $48; Crown Iron Works, Minneapolis, $8. For 100 D. S. hydrants with frost cases: Camden Iron Works, Camden, N. J., $42.75 and $41.75 D. S.; South Park Foundry & Machine Co., St. Paul, Minn., $45.50. For valves, 100 6-in., 15 8-in., 12 12-in. and 2 24-in. with by-pass: J. B. Clow & Sons, Chicago, $13.60, $20.75, $39 and $258.75 respectively; South Park Foundry & Machine Co., St. Paul, Minn., $13.50, $18.50 and $37. Darling Pump & Mfg. Co., Williamsport, Pa., $12.50, $19, $37 and $215; Chapman Valve Co., Indian Orchard, Mass., $13.12, $19.50, $37.20 and $200; Kennedy Valve Co., 57 Beekman St., New York, $16.50, $17.50, $32.25 and $235; Rensselaer Mfg. Co., Monadnock Bldg., Chicago, $11.30, $17, $32.75 and $192; Roe-Stephens Mfg. Co., Detroit, Mich., $11.50, $17.50, $33.75 and $225. Andrew Rinker is City Engr.

EMPORIA, KAN.—The City Council has decided to add 20 wells to the present water system. Alva Smith is City Engr.

MOUNDRIDGE, KAN.—See Item under Light and Power Plants.

CROCKETT, TEX.—The citizens have voted in favor of issuing bonds for the construction of a water-works system.

HASKELL, TEX.—The city on Dec. 31 we are officially advised, voted $23,000 of bonds for the construction of water-works. The O'Neil Engineering Co., Wilson Bldg., Dallas, Tex., has prepared plans and will supervise the construction work.

TULSA, OKLA.—The city has awarded the contract to SWIFT & ALT, St. Louis, Mo., at $27,000 for the construction of sedimentation basins and will install the pump, which will have a capacity of 3,000,000 or 4,000,000 gallons. T. C. Hughes is Engr.

DUNCAN, OKLA.—The citizens have voted $46,000 of bonds for the extension of water-works and other improvements.

KIOWA, OKLA.—The citizens have voted $38,000 of bonds for water-works construction.

CLINTON, OKLA.—We are officially advised that G. C. BROOKS & S[illegible]NS, of Jackson, Mich., were awarded the contract on Jan. 6 by the town for about [illegible] blocks extension to the distributing system of the water-works. S. J. Storm is Town Clk.

*HUGO, OKLA.—Bids are asked by the City Council until 8 p. m., F[illegible] 2, for the construction of a water-work[illegible] plant here according to plans and specifi[illegible]ions on file with the City Clerk, and also [illegible] the office of Hiram Phillips, St. Louis, Mo. W. T. Echols is Clk.

PUEBLO, COLO.—Plans fo[illegible] a reservoir and ditch system, which will irrigate 4,000 acres of land in southeastern [illegible]eblo County, were filed with the County [illegible]rk and Recorder on Jan. 4. The syste[illegible] is known as the Summit reservoirs Nos. 1 [illegible]2 and 3, the Summit supply ditches Nos. 1 [illegible]d 2, and the Summit canals Nos. 1 and 2. [illegible]he survey of

the system ... completed Oct. 15, 1908, and the promo... intend to commence the actual work ... construction at once. The water righ... are claimed by J. E. Benell, of Ordway. ... G. El Studebaker, of Rocky Ford. The ... and to be irrigated is 20 miles south of ... ler in sections 19, 20, 21, 28, 29 and 3... Township 25, South Range 60 West.

NORTH ... AKIMA, WASH.—Incorporation papers ha... been filed with the County Auditor for ... Yakima Valley View Irrigation Co., with ... capital stock of $100,000. A. W. McD... id, of Toppenish, Wash., and others are ... he incorporators. The company proposes ... irrigate land above the Sunnyside canal.

The H... LIDIE MACHINERY CO. has been awa... the contract by the city for the ma... ery to be used in the Pomona Heights ... ping plant on the Yakima River north of ... city at $15,805.

GRASS ... ALLEY, CAL.—The contract for the con... ction of a complete pumping system has ... en awarded by the Empire Mines to the T... LOR FOUNDRY & ENGINEERING CO., of Grass Valley.

REDWOOD CITY, CAL.—It is proposed to expend ... about $20,000 for water-works improvements here, work to commence in about three months.

PHOENIX, ARIZ.—All bids submitted to the Wate... Users' Association for the construction of the new Highland canal, east of Mesa, have been rejected and will be advertised again.

SALT LAKE CITY, UTAH.—The issue of $475,000 of bonds for water-works and $125,000 of sewer bonds voted last June has been declared legal by the Supreme Court of Utah, and the proposed improvements will begin at once. L. C. Kelsey is City Engr.

LEWISTON, IDAHO.—The WARREN CONSTRUCTION CO., of Portland, Ore., and F. A. DALE, of Lewiston, Idaho, were awarded the contract on Dec. 28 by the city for extending the intake pipe at about $152,000. J. E. Nickerson is City Clk.

NORTH TORONTO, ONT.—The following improvements will be constructed: A 6-in. water main, hydrants, valves, etc., in Bowood Ave.; tar and gravel sidewalk, 4 ft. in width, with necessary grading, on Broadway. William J. Douglas is Town Clk.

MEAFORD, ONT.—The citizens on Jan. 4 voted to issue bonds for the construction of a new filtering basin.

MARKDALE, ONT.—Bids were opened on Dec. 28 by the Town Council for a portion of the water-works system as follows: For furnishing pipe and accessories, including hydrants, valves, specials, etc.: For c.-i. pipe: Gartshore-Thomson, $33 per ton for straight and $60 per ton for specials; Canadian Iron & Foundry Co., $34 and $60; CANADA FOUNDRY CO., Davenport, Toronto, Ont., $33.75 and $58 (awarded contract. For laying about 2,000 lin. ft. of 8-in., 3,200 ft. of 6-in., and 10,100 ft. of 4-in. and under pipe 5 ft. below surface, 20 hydrants, 40 valves, etc.: Paul Bergman, Waterloo, Ont., $4,800; Bishop & Buchanan, Owen Sound, Ont., $5,100; John F. Connolly, Toronto, Ont., $3,250; Thomas M. Cullon, Huntsville, Ont., $3,401; Robert Foster, Welland, Ont., $3,850; JOHN HARTNETT, Toronto, $3,067 (awarded contract); McKnight Construction Co., Toronto, $3,430; J. E. Murphy, Toronto, $4,837; Rowan & Elliott, St. Catharines, Ont., $4,400. For stand pipe, steel, 14 x 70 ft., resting on a concrete foundation about 23 ft. diameter and 5 ft. 6 ins. deep (included): Herbert J. Armstrong, Markdale, $3,390; Canada Foundry Co., Toronto, $3,790; Jencks Machine Co., St. Catharines, Ont., $3,625; Jenks Dresser Co., Sarnia, Ont., $2,985; Toronto Iron Works Co., Toronto, Ont., $3,200; Western Bridge Co., Chatham, Ont., $3,900. (No contract was awarded as elevated tank was selected.) For elevated tank, steel tank 20 ft. diameter x 28 ft. high, hemispherical bottom, supported on steel tower 60 ft. high, including concrete piers: Herbert J. Armstrong, Markdale, $3,370; Canada Foundry Co., Toronto, $4,615; Jenks Dresser Co., Sarnia, $3,500; Ontario Wind Engine Co., Toronto, $4,125; TORONTO IRON WORKS, Toronto, $3,100 (awarded contract). C. H. Mitchell is Engr.

VICTORIA, B. C.—The contract for the salt water high pressure pumps has been awarded by the city to the D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., at $17,630, for the following equipment: Electric driven unit consisting of general electric motor, direct connected to two 2-staged D'Olier turbine pumps provided with bronze runners and diffusion veins, and one steam-driven unit consisting of a Kerr steam turbine, direct connected to one D'Olier three-staged turbine pump.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

LYNN, MASS.—The Board of Public Works has awarded the contract for furnishing the two 12-in. and one 6-in. centrifugal pumps required for pumping the sewage from the lower Washington St. sewer into the eastern interceptor at the corner of Broad St., to SAMPSON & ALLEN, of Lawrence, Mass., at $... Horace R. Parker is Ch. Clk. Bd. of ... Wks.

BOSTON, MASS.—Bids are asked by Guy C... erson, Supt. of Streets, until noon, Jan. ... 1, for cleaning about 7,000 catch basi... in the following districts: No. 1, Sou... Boston, about 900 basins; No. 2, East Bos... about 400 basins; No. 3, Charlestown, abo... 00 basins; No. 4, Brighton, about 700 basi... No. 5, West Roxbury, about 800 basi... No. 6, Dorchester, about 1,000 basins; No... and 8, Roxbury and city proper, about 1,70... basins; Nos. 9 and 10, city proper, abo... 000 basins.

R... CHESTER, N. Y.—Plans have been abo... completed by Emil Knickling, Consult. Eng... for the construction of a sewer along the ... river bank to Lake Ontario to take the ... one of the east side sewer outlet into the ... River. Edwin H. Fisher is City Engr.

TONAWANDA, N. Y.—Bids are asked by the Board of Public Works until Jan. 15 for the construction of a complete sewer system, including a lifting station for the eastern portion of the city.

SYRACUSE, N. Y.—The contract will probably be awarded in March by the Intercepting Sewer Board, H. J. Hamlin, Secy., for about 2½ miles of the intercepting sewer, 33 to 90-ins. in diameter. Glenn D. Holmes is Ch. Engr., 112 New Court House.

FULTON, N. Y.—The State Department of Health has approved plans for the construction of the disposal plant for the west side sewer system.

NEW YORK, N. Y.—Bids are asked by Louis Haffen, Pres. Boro. of the Bronx, until 11 a. m., Jan. 21, for constructing sewer and appurtenances in Gun Hill road, between Perry Ave. and Woodlawn road; in Woodlawn road, between Gun Hill road and East 210th St.; in Wayne Ave., between Gun Hill road and East 210th St., and in Tryon Ave., between Gun Hill road and Reservoir Oval; for constructing a sewer and appurtenances in Jerome Ave., between East 208th St. and Summit north of Gun Hill road, and for constructing a receiving basin and appurtenances at the northeast corner of Jerome Ave. and Kingsbridge road.

NEW YORK, N. Y.—The following bids were received on Jan. 12 by Louis F. Haffen, Pres. Boro. of The Bronx, for completing the contract abandoned Oct. 26, 1908, for construction of a storm relief tunnel sewer from the Webster Ave. sewer, near Wendover Ave., in Mill Brook watershed (Sewerage Dist. 33), to Harlem River, about 231 ft. north of Highbridge, 24th Ward, Boro. of The Bronx: New York & Portchester Construction Co., 129 West 125th St., $321,244; McDonald & Barry, 183d St. and Tiebout Ave., $375,372; Degnon Contracting Co., 60 Wall St., $378,564; Robert J. Rooney, $373,329; Gore & Meenan, 206 Broadway, $336,490; Phoenix Construction Co., Park Row Bldg., $411,312; John J. Hart Co. Pugsley Ave., Bronx, $394,361; Haggerty Contracting Co., 217 West 125th St., $350,836.

BINGHAMTON, N. Y.—The Board of Contract and Supply has awarded the contract to JOHN TYNE for the construction of the Ireland Ave. sewer. S. M. Baird is City Engr.

ASBURY PARK, N. J.—The Council on Dec. 29 decided to issue bonds for $35,000 for a sewer plant. W. C. Burroughs is City Clk.

ROANOKE, VA.—Bids are asked until noon, Jan. 18, by R. H. Wills, City Clk., for the construction of a sewer for properties on east and west side of 13th St. W. W. Bates is City Engr.

WINCHESTER, VA.—The citizens on Jan 7 voted in favor of issuing $50,000 of bonds for the construction of a sewerage system.

HAMPTON, VA.—The citizens on Jan. 5 voted in favor of issuing $100,000 of bonds for the improvement of streets and sewerage.

*CHARLESTON, W. VA.—C. T. McCracken & Co., Columbus, Ohio, on Jan. 6, submitted the lowest bid to the Board of Affairs for constructing sewers here, at $22,193 for brick and $20,000 for reinforced-concrete pipe construction. W. A. Hogue is City Engr.

ALBANY, GA.—The city has decided to extend the sanitary sewer system, $80,000 being available for this work and other improvements. R. J. Edgerly is City Engr.

BARTOW, FLA.—W. W. Lyon, Jacksonville, Fla., and E. M. Gibbons, Asst. Engr., are surveying the city for the purpose of making estimates for the construction of a system of sewerage.

WOODLAWN (Birmingham post-office), ALA.—The city has voted $15,000 of bonds for the extension of the sewer system.

TOLEDO, OHIO.—Bids will be received until Jan. 20 by the Board of Public Service for furnishing the material and constructing local sewers Nos. 1061, 1065, 1066, 1068 and 1070. Reynold Volt is Secy. Bd.

SYLVANIA, OHIO.—Bids will be received by the Village Council until Jan. 21 for furnishing the material and constructing a sewer system here. W. B. Harris is Village Clk. Riggs & Sherman, 613 The Nasby, Toledo, are Engrs.

CANTON, OHIO.—The Board of Public Service on Jan. 7 awarded the contract for the construction of a storm water sewer in Linden, Brown and Louis Aves. to L. D. BURD, at $3,837. J. A. Starrett is City Engr.

COLLEGE HILL (Cincinnati post-office), OHIO.—Bids will be received by the Clerk of the Village of College Hill until noon, Feb. 8, for furnishing the necessary labor and materials for the construction of sanitary sewers and appurtenances in private right of way in ravine from Davey Ave. to disposal plant, in Linden and Tacoma Aves., and in Hamilton Pike and lateral streets west, the work to consist of vitrified sewer pipe 6-in. to 12-in. in diameter, iron pipe, manholes and Y branches, according to plans and specifications on file in the office of the Clerk and in the office of J. A. Stewart, Engr., 1112 Traction Bldg., Cincinnati.

ASHTABULA, OHIO.—Bids are asked by the Board of Public Service until noon, Jan. 19, for constructing a sewer in a portion of Colorado St. A. J. Richardson is Clk. Bd.

GRAND RAPIDS, MICH.—CHARLES E. WILLIAMS was awarded the contract on Jan. 2 by the Board of Public Works for the construction of the sewage pumping station at Coldbrook and Canal Sts., at $7,090.

DETROIT, MICH.—Bids are asked until 10 a. m., Jan. 15, by the Department of Public Works, for constructing the Gratiot Ave. and Waterman Ave. sewers. J. J. Haarer is Comr. Pub. Wks.

MILWAUKEE, WIS.—The Menomonee River Sanitary Commission, consisting of Mayor D. S. Rose, G. A. Bading, Health Comr., and C. J. Poetsch, City Engr., have recommended the appointment of George C. Whipple, 103 Park Ave., New York; John W. Alvord, of Chicago, Ill., and Harrison P. Eddy, of Boston, Mass., to prepare plans for a sewage disposal system for the purification of the Menomonee River. The Joint Committee on Health and Sewerage has approved the recommendation.

ST. JOSEPH, MO.—Contracts will soon be let for the construction of main sewers. Estimated cost, about $42,150. David L. Lawlor is City Engr.

BRYAN, TEX.—The city contemplates constructing a sewer system. J. T. Maloney is Mayor.

HASKELL, TEX.—The city has voted $7,000 of bonds for the construction of a sewerage system. The O'Neil Engineering Co., Dallas, Tex., has prepared plans and will supervise the construction work.

GALVESTON, TEX.—Horton & Horton are the lowest bidders for the construction of reinforced-concrete drain on Ave. M., at $41,839, if payments are made in 40-yr. 4½% grading, filling and drainage bonds, and $41,021 if one-fourth cash and three-fourths bonds. A. T. Dickey is City Engr.

SAN ANTONIO, TEX.—The City Engineering Department is completing specifications for the construction of eleven miles of sewers in Prospect Hill Improvement district. Bonds for $45,000 have been voted for this work. F. M. Giraud is City Engr.

PURCELL, OKLA.—Bids are asked by M. S. Robinson, City Clk., until 4 p. m., Jan. 25, for constructing a system of sanitary sewers.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of the following improvements: East Republican St., from 21st Ave. North to 23d Ave. North, and other streets, sewers and water-mains, $8,500; Third Ave. West, from West Howe St. to West Dravus St., and other streets, sewers, $37,500; First Ave. West, from West Crockett St. to West Florentia St., and other streets, sewers, $23,500.

PASADENA, CAL.—E. L. PLANTELL has been awarded the contract by the city for constructing a sewer in Euclid Ave., at $3,850. Heman Dyer is City Clk.

STRATFORD, ONT.—The ratepayers have voted in favor of a by-law providing for the expenditure of $25,000 for sewage disposal work.

NEW TORONTO, ONT.—A. F. Macallum and T. Aird Murray, Consult. Engrs., Toronto, are preparing plans for the installation of the proposed sewerage system in this township.

BANFF, ALTA.—Bids are asked by Howard Douglas, Comr. of Parks, Banff, until noon, Feb. 5, for the following sewer pipe and fittings required for extensions to the Banff sewerage system: 282 ft. of 8-in. sewer pipe; 1,810 ft. of 9-in., 600 ft. of 15-in., 30 6-in. off 15-in. sewer junctions, 60 6-in. off 9-in. sewer junctions, the whole of the material to be delivered f. o. b. cars at Banff, April 1, 1909.

GARBAGE DISPOSAL.

STEUBENVILLE, OHIO.—The Board of Public Service has awarded the contract for garbage removal and disposal for the present year to HOWARD & SMITH, of this city.

MIDDLETOWN, OHIO.—Bids are asked until 7.30 p. m., Jan. 15, by the Board of Public Works for sweeping the paved streets of Middletown. John Kunz is Clk. Bd.

STREETS AND ROADS.

MINEOLA (L. I.), N. Y.—Bids are asked by the Board of Supervisors, Mineola, until Jan. 18, for grading the West Shore road from Cleft road to West Main St., Oyster Bay. William H. Seaman is Engr.

BROOKLYN, N. Y.—All bids opened Dec. 16 by Bird S. Coler, Pres. Brooklyn Boro., for regulating and repaving with asphalt block on concrete foundation Flatbush Ave., from Fifth Ave. to Plaza St., about 9,862 sq. yds., have been rejected.

LONG ISLAND CITY (L. I.), N. Y.—Contracts were awarded on Dec. 30 by Lawrence Gresser, Pres. Boro. of Queens, as follows: For regrading and repaving with granite blocks the College Point Causeway, between College Point and Flushing to the PHOENIX CONSTRUCTION CO., 41 Park Row, New York, at $30,079. For grading and curbing and laying bluestone sidewalks on Potter Ave., Astoria, from Eleventh Ave. to Flushing Ave., and on Eleventh Ave., from Flushing to Potter Aves., both to the ASTORIA CONTRACTING CO., Astoria, N. Y., at $15,318.

NIAGARA FALLS, N. Y.—The H. P. BURGARD CO., 275 Lathrop St., was awarded the contract on Jan. 5 by the Board of Public Works for paving a portion of Fourth St. with asphalt, at $23,647.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Jan. 21, by Louis F. Haffen, Pres. Boro. of the Bronx, for paving with asphalt pavement on a concrete foundation the roadways and sidewalks on the bridges over the New York, New Haven & Hartford R. R. (Harlem River Branch), at Longwood Ave., Tiffany St., Hunts Point road, Faile St., Bryant St., Westchester Ave., Tremont Ave., West Farms road, White Plains road, Unionport road, Williamsbridge road and Baychester Ave.; paving with asphalt pavement the roadways and sidewalks of the bridges over the New York, New Haven & Hartford R. R. (Harlem River Branch), at E 149th St., Leggett Ave., Lafayette Ave., Barretto St., Longfellow Ave. and Ludlow Ave.; paving with asphalt block pavement on a concrete foundation the roadway of Cambreleng Ave., from Grote St. to the lands of St. John's College (Fordham University), and setting curb where required; for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Leggett Ave., from Southern Boulevard to Randall Ave., and for flagging and reflagging and placing filling where necessary on Burnside Ave., between Webster Ave. and Aqueduct Ave.

NEWARK, N. J.—The Board of Freeholders are considering the paving of portions of Bloomfield and Frelinghuysen Aves. M. R. Sherrerd is City Engr.

JERSEY CITY, N. J.—The Street and Water Board has awarded the contract for repaving about 15,000 sq. yds. on Bergen Ave. with wooden block to the U. S. WOOD PRESERVING CO., 29 Broadway, New York, at 85 per cent., bids being submitted on the percentage basis.

JERSEY CITY, N. J.—Bids are asked until 2 p. m., Jan. 18, by the Street and Water Board for the improvement of Colgate St. George T. Bouton is Clk. Bd.

PHILADELPHIA, PA.—Contracts for maintaining and repairing the streets of the city during 1909 were awarded on Jan. 7 by George R. Stearns, Dir. of Pub. Wks., as follows: For maintenance of unpaved and macadamized roads, small bridges and sprinkling thereof, to DAVID McMAHON, Main and Chelten Aves., at $67,400; for repairs to paved streets, except asphalt, not occupied by railway tracks, divided among the McNICHOL PAVING & CONSTRUCTION CO., Betz Bldg., CUNNINGHAM PAVING & CONSTRUCTION CO., and MACK PAVING & CONSTRUCTION CO., Land Title Bldg., at from 16 cts. to $1.35 a sq. yd., according to the character and extent of the work. The sum of $5,000 was appropriated for this work; for repairing streets other than asphalt occupied by railway tracks, to the McNICHOL PAVING & CONSTRUCTION CO., CUNNINGHAM PAVING & CONSTRUCTION CO. and MACK PAVING & CONSTRUCTION CO., at from 10 to 97 cts. a sq. yd. The sum of $500,000 is available for this work; for repairs to asphalt paved streets to the FILBERT PAVING & CONSTRUCTION CO., at from 68 cts. to $1.35 per sq. yd., and for granolithic paved streets, to J. JOSEPH McHUGH, at $1.17 per sq. yd.

The FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., has received the contract for repairing asphalt streets occupied by railway tracks, at from 83 cts. to $1.35 a sq. yd.

The award for furnishing, delivering, spreading and rolling broken stone on roads occupied by railway tracks was made to the CUNNINGHAM PAVING & CONSTRUCTION CO., at from 12 to 97 cts. per sq. yd.

SCRANTON, PA.—R. C. RUTHVEN, Buffalo, N. Y., has secured the contract for paving Green St., Webster, Quincy, Railroad, Seventh and Fourth Aves. Bids were opened on Dec. 23. List of bidders noted last week.

SALISBURY, MD.—No bids were received on Dec. 29 for grading and shell macadamizing, about 1 1-3 miles of road, in Wicomico County, known as Jersey road. The work will be done by the county forces under the supervision of H. M. Clark, County Road Engr.

ANNAPOLIS, MD.—Bids are asked by the County Commissioners of Anne Arundel County until noon, Jan. 26, for grading and macadamizing about 1¼ miles of the Annapolis road. E. H. Hayman is Road Engr.

BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., Jan. 20, for cobble or rubble paving stone and broken stone, vitrified paving blocks, asphalt blocks, curbstone, gutter-stone and flagstone, granite paving blocks, sidewalk and sewer brick, sheet asphalt repairs for the entire city, for general purposes in the City Engineer's department during the year 1909. Specifications can be obtained at the office of the Department of Public Improvements, and bids will be received for each material specified where the bidder cannot furnish all the materials named. B. T. Fendall is City Engr.

HAMPTON, VA.—See item under Sewerage.

VALLEYTOWN (Marble post-office), N. C.—The Highway Commission of Valleytown is considering issuing $25,000 of bonds for macadamizing roads. J. Q. Barker is Pres. Comn.

MACON, GA.—The City Council is considering the appropriation of about $10,000 for street improvements, which will include the paving of Cotton and Washington Aves. and Poplar St. Estimated cost, about $30,000. J. W. Wilcox is City Engr.

GADSDEN, ALA.—Bids will soon be asked by the City Council for paving portions of Twelfth St.

KNOXVILLE, TENN.—Knox County is considering the issuance of $500,000 of bonds for road improvements. A. D. Collier is County Judge.

FOSTORIA, OHIO.—The citizens on Dec. 29 voted in favor of issuing $75,000 of bonds for road improvements. Charles Latshaw is City Engr.

SPRINGFIELD, OHIO.—The City Council has passed a resolution providing for the paving of portions of Yellow Springs, North, Spring and Monroe Sts. M. T. Bakin is City Engr.

COLUMBUS, OHIO.—Bids will be received by the Commissioners of Summit County, until noon, Jan. 21, for grading and macadamizing one mile of road in Portage Township. James C. Winders is State Highway Comr.

WASHINGTON, IND.—Contracts for the construction of four gravel roads in Daviess County have been awarded to the M. H. WILSON CO., and for one gravel road to FRANK A. JEAN. Aggregate cost, $40,000.

KOKOMO, IND.—Bids are asked by the Commissioners of Howard County, Kokomo, until Feb. 3, for the construction of 17 roads, each about three miles in length.

GREENFIELD, IND.—Contracts for the construction of roads were awarded by the County Commissioners on Jan. 4 as follows: The J. L. Fry road or State St., to J. J. KELLER & CO., of Frankfort, at $32,570; Frank Steele road, to A. F. HOOTEN & SON, at $8,994; Kimberlin road, to J. L. VAIL and J. WOOD, at $4,497; the Sparks road, to D. H. FATONT(at $4,130; S. B. Blackburn road, to W. W. SHIELDS, at $5,500; the W. A. Hoppis road, to BETTS & DUNN, at $5,450.

NEW ALBANY, IND.—The Board of Public Works has adopted plans and specifications for paving portion of Locust St.

VINCENNES, IND.—Bids were opened on Jan. 6 by the County Commissioners for the construction of the Charles Cunningham and other gravel roads. The contract was awarded to LOUIS PHILLIPPE at $5,880.

VINCENNES, IND.—Bids are asked by the Commissioners of Knox County, Vincennes, until Feb. 2, for the construction of 4,539 ft. of gravel roads in Vigo Township; 1,877 ft. of gravel road in Vincennes Township, and 2,067 ft. of gravel road in Vigo Township.

GREENFIELD, IND.—Bids are asked by the Commissioners of Hancock County, Greenfield, until Feb. 1, for the construction of 2½ miles of roads in Vernon Township; .773 miles and .63 miles in Center Township, the latter to be paved with brick; and 2.97 miles in Buck Creek Township.

SPENCER, IND.—Bids are asked by the Commissioners of Owen County, Spencer, until Feb. 18, for the construction of 1½ miles of macadamized road on line between Clay and Owen Counties.

CRAWFORDSVILLE, IND.—Bids are asked by the Commissioners of Montgomery County, Crawfordsville, until Feb. 2, for the construction of a gravel road in Union Township and a gravel road in Brown Township.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County, Fowler, until Feb. 1, for the construction of 15,340 ft. of gravel road and streets in Fowler Township.

BLUFFTON, IND.—The County Commissioners on Dec. 30 awarded contracts for 13 gravel and stone roads in Wells County to be built during the coming summer. There were 38 bidders for the roads. The awards and roads are as follows: To ELI ENGLE, F. J. Sommers and Charles Clark roads, both in Jefferson Township, at $8,759 and $7,363, respectively; JOHN GORDON, the G. F. Allen road, in Union Township, at $2,399; C. C. COLE, the Ed Platt road, in Union Township, at $7,600; M. ALEXANDER, the C. B. Stipp road, in Nottingham Township, at $3,995; G. T. & WILSON N. WOODWARD, the Alexander White road, in Jefferson Township, at $4,695; F. B. FISHBAUGH, the John Kimmer road, in Rockcreek Township, at $4,644; WILLIAM REPPERT, the Conner road, in Lancaster Township, at $5,227; the Guy Myers road, in Jefferson Township, at $6,000, and the Ernest Myers road, in the same township, at $7,790; LEWIS HUTSELL, the J. C. Middaugh road, in Union Township, at $7,040, and the Ed Robinson road, in Union Township, at $6,199.

INDIANAPOLIS, IND.—Resolutions were adopted by the Board of Public Works on Jan. 4 for the improvement of various streets. Estimated cost, $80,000. Blaine H. Miller is City Engr.

DETROIT, MICH.—Bids will be received until Jan. 15 by the Department of Public Works, J. J. Haarer, Comr., for furnishing and delivering 1,000,000 paving brick.

CHICAGO, ILL.—Bids will be received by the South Park Commissioners, E. G. Shumway, Secy., until Jan. 20, for about 35,000 sq. yds. of paving on Michigan Ave. between Twelfth and Jackson Sts. Bids will be received on three classes of pavement, as follows: Class A, sheet asphalt; Class B, creosoted wood block; Class C, any bituminous concrete pavement, for which bidder may submit specifications.

ELGIN, ILL.—Bids will probably be asked in April for 27,985 sq. yds. of brick pavement, 3,679 sq. yds. of asphalt, 13,000 cu. yds. of excavation and 12,500 lin. ft. of curb and gutter. C. E. Plum is City Engr.

MOORHEAD, MINN.—The citizens on Dec. 28 voted in favor of issuing $20,000 of bonds for paving. A. M. Hopeman, of Moorhead, is Engr.

INDEPENDENCE, KAN.—The County Commissioners will soon award the contract for macadamizing about three miles of road to connect the Littel Blue road and Independence road South.

LITTLE ROCK, ARK.—The City Council is contemplating the paving of a portion of Water St. with brick. Estimated cost, $75,000.

SALEM, ARK.—The Fulton County Court has appropriated $5,000 for the construction of a macadamized road from Mammoth Spring, Ark., to Salem, a distance of 20 miles.

HASKELL, TEX.—The city has voted $5,000 of bonds for street improvements.

TEXARKANA, TEX.—The bond issue of $250,000 recently voted by the citizens for road construction and improvement of streets in Precinct No. 1, including the Texas half of Texarkana, has been declared illegal. Another election will probably be held.

PARIS, TEX.—The Texas Bitulithic Co. has completed plans for paving the public square here. J. W. Croak is City Engr.

HOBART, OKLA.—The following bids were received on Dec. 30 by the city for paving as follows: (a) 47,000 sq. yds. Natural Lake asphalt, (b) 8,000 lin. ft. 30-in. concrete curb and gutter, (c) 4,000 ft. 30-in. single concrete gutter, (d) 4,000 ft. concrete curb, 6 × 8 × 24 ins.: Barber Asphalt Paving Co., Kansas City, Mo., (a) $2.29½, (b) $1, (c) 75 cts., (d) 70 cts.; Warner-Quinlan Paving Co., Syracuse, N. Y., (a) $2.29, (b) 94 cts., (c) 55 cts., (d) 70 cts.; Parker Washington Paving Co., Muskogee, (a) $2.30, (b) $1, (c) 75 cts., (d) 70 cts. O. E. Noble is City Engr.

OLYMPIA, WASH.—The City Council has adopted a resolution providing for improving the downtown district by paving. Estimated cost, $96,209.

SEATTLE, WASH.—R. H. Thomson, City Engr., has submitted estimates for the following local improvements: 24th Ave. North, from East Madison St. to East Ward St., paving with asphalt, $25,000; 32d Ave. North, from East Madison St. to East Highland Drive and other streets, grading, curbing and constructing sewers, $7,500; Franklin Ave., from Shelby St. to Harvard Ave. North, paving with asphalt, $5,000; Palatine Ave. and other streets, concrete walks, $11,200; Spokane St., from First Ave. South to Arizona Ave. and other streets, planking, $57,000; Pacific Pl., from Ewing St. to East 40th St. and other streets, grading, etc., $17,000; Coe Pl., from 14th Ave. South to Atlantic St., grading and curbing, $37,500; 33d Ave., from East Pike St. to East Pine St., paving with asphalt, $5,600; First Ave. South, from Atlantic St. to Stacy St., by paving, as follows: if paved with granite blocks, $77,152; if paved with wood blocks, $51,854; if paved with asphalt, $62,000; Calhoun St. and other streets, grading and curbing, $65,000.

Contracts have been awarded by the Board of Public Works as follows: First Ave., constructing concrete sidewalks, to HANS PEDERSON, at $3,540; 17th Ave. South and other streets, planking, A. K. DYE, at $7,924.

LOS ANGELES, CAL.—Bids were opened as follows on Dec. 21 by the Board of Public Works for paving with brick Orange St. price given per sq. ft.: M. S. Cummings, 33 cts.; Fairchild Gilmore-Wilton Co., Pacific Electric Bldg., 32 cts.; Pattillo Contracting Co., 28 cts.; O. W. Shafer, 30½ cts.; George H. Oswald, 28 cts.; Dorin, Brouse & Price, 207 South Broadway, 30 cts.; H. J. McGuire, Copp Bldg., 29 cts. Homer Hamlin is City Engr.

The following bids were opened on Dec. 21 by the Board of Public Works for paving a portion of Sunset Boulevard with asphalt: Barber Asphalt Paving Co., Henne Bldg., 16 1-5 cts. per sq. ft.; A. H. Calkins & Co., Mason Bldg., 17 9-10 cts.; Pattillo Co., 14½ cts. per sq. ft. Estimated cost of improvement, $200,000.

SACRAMENTO, CAL.—The Board of Supervisors on Dec. 30 awarded the contract to COTTON BROS., Bacon Bldg., Oakland, Cal., for macadamizing the lower Stockton road.

LEWISTON, IDAHO.—The contract for the construction of the curbs and gutters and the installation of the drainage system in connection with the road paving was awarded on Dec. 28 by the city to F. A. DOLE, of Lewiston, at $18,000.

KINGSTON, ONT.—The City Engineer has submitted a report showing the cost of road paving on sections of the following streets: Princess St., $8,659; Wellington St., $8,780; Clarence St., $10,109; Brock St., $4,901; King St., $9,501; Ontario St., $13,067.

NORTH TORONTO, ONT.—See item under Water Supply-Irrigation.

TAMPICO (Tamaulipas), MEX.—The contract for paving the principal streets here has been awarded by the city to the COMPANIA MEXICANA DE PAVIMENTOS DE ASFALTO Y CONSTRUCCIONES of Mexico City, Mex. Estimated cost of improvement, $800,000.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The U. S. Envelope Company has awarded the contract for the factory building it will erect on the south side of Cypress St. to CASPAR RANGER, of Holyoke, Mass. The structure will be built of brick and of mill construction in accordance with plans drawn by Samuel M. Green, of Holyoke. It will have five stories and basement. The main structure will be 265 ft. long, 100 ft. wide and 82 ft. high. There will be an L of the same height and 56 × 90 ft. The total floor space will be about 180,000 sq. ft. Work will begin on the building as soon as the foundation is completed.

WORCESTER, MASS.—The Royal Worcester Corset Co. contemplates erecting two additions to its plant, one on the Wyman St. side and the other on the Grand St. side. The additions will cost about $125,000.

BRIDGEPORT, CONN.—The Union Metallic Cartridge Co. has invited bids for the erection of a 10-story factory building, which, with its equipment, is to cost approximately $150,000. The structure will be of steel and brick, 88 × 130 ft. It will be utilized for the manufacture of shot of all sizes. The factory will have a capacity of 100 tons of shot a day.

MARTINSVILLE, N. Y.—The Wurlitzer Mfg. Co. has been incorporated at Albany with a capital of $1,000,000. It is stated that plans and specifications have been prepared for additions to the musical instrument plant at Martinsville which is to cost about $500,000.

BUFFALO, N. Y.—The A. Schreiber Brewing Co., 662 Fillmore Ave., has had plans prepared for a brick and structural steel addition to its plant, including a 2-story office building, to cost $21,000.

The Automatic Transportation Co. has purchased site at Main St. and the Erie R. R. and will erect a plant. A 2-story brick machine shop, 60 × 200 ft., for which plans are being prepared, will be erected at once and a foundry and other buildings later. W. C. Carr is Pres., 9 Lewis Block.

The Buffalo Metal Furniture Co. has filed plans for the construction of a 2-story brick factory to be erected at Niagara St. and Bird Ave. David W. Thompson is Pres., 1457 Niagara St.

The Niagara Cement Co. is having plans prepared for a $250,000 extension to its manufacturing plant at Hamburg and Katherine Sts. and the Buffalo River. The company's offices are at 892 Ellicott Square Building.

BINGHAMTON, N. Y.—The Crossett & Lloyd Concrete Co., of Binghamton, capitalized at $20,000, was incorporated on Jan. 5 to manufacture cement and bricks. The Directors are Frank L. Crossett, Walter O. Lloyd and Eugene W. Frost, of Binghamton. Offices will be opened in the Binghamton Press Building about Feb. 1, and 50 men will be employed at the start. Cement blocks for building purposes will be made. A steam-tight building for the purpose of curing the blocks will be built.

BINGHAMTON, N. Y.—A 3-story and basement addition, 50 × 150 ft., of brick, is to be made to its factory on Robinson St. by the Chenango Silk Co. Plans are under preparation and bids will be called for soon.

NEW YORK, N. Y.—Plans have been prepared by Mortensen & Co., Archs. and Engrs., 401 West 24th St., for a 3 and 4-story brick, stone and concrete ice plant, 50 × 200.10 ft., to cost $70,000. The plant will be built by the Seventieth Street Hygeia Ice Co., 37 Wall St., on 70th St., east of Ave. A.

OAKMOUNT, PA.—The Crane-Best Co. has awarded the contract for the erection of the new plant here to H. L. KREUSSLER & CO., 3301 Pennsylvania Ave., Pittsburg, and the contract for the 2,500 tons of fabricated steel to the AMERICAN BRIDGE CO., Frick Bldg., and the RITER-CONLEY MFG. CO., 55 Water St., both of Pittsburg. There will be about 12 buildings of various sizes in the group which will comprise the completed plant, all of which will be of brick, steel and concrete, and fireproof. Work on building the foundations is to be started at once, and the buildings will be completed during the present year. It is the intention of the company to have several of them completed in the early spring, and to complete the remainder as soon as possible thereafter. None of the contracts for equipment have been placed, and will not be for about a month. A large power plant will be built, which will furnish steam and electricity for the entire plant. A part of the equipment will be moved from the present plant of the Best Mfg. Co. at Pittsburg.

POTTSTOWN, PA.—We are officially advised that J. V. Poley, C. E., 162 Second St., Royersford, Pa., is preparing plans for a 1-story brass foundry, 40 × 75 ft., for Mitchell & Van Meter. Bids will be received by the owners.

SHAMOKIN, PA.—Jury, Kessler & Lee, of Shamokin, are preparing plans and will receive bids until about Feb. 1 for erecting a 4-story 50 × 220-ft. mill building and a 1-story boiler and engine house 50 × 100 ft. for the Shamokin Throwing Co. Pressed brick, terra cotta and stone will be used, and the cost is reported to be $80,000.

ERIE, PA.—A site has been purchased by the Odin Stove Mfg. Co., at West Twelfth St., upon which the company will erect an addition to its plants.

BUSHKILL, PA.—Press reports state that a cement manufacturing plant is to be erected here, to cost about $300,000. The plant will employ 250 men and will have a capacity of 1,000 bbls. a day. Water power will be taken from Winona Falls by a pipe line. J. W. Houck is Gen. Mgr.

FAIRMONT, W. VA.—It is stated that the Independent Steel & Wire Co., House Bldg., Pittsburg, Pa., will establish a plant here. The company has four mills in operation, which will be consolidated in Fairmont, giving employment to 1,600 men. Work on the plant will begin early in the spring. The cost of the plant will be $3,000,000.

MORGANTOWN, W. VA.—The U. S. Steel Corporation, 71 Broadway, New York, N. Y., will double the capacity of the plant of the American Sheet & Tin Plate Co. at Morgantown. When completed, the plant will represent an investment of $1,000,000 and will employ 1,000 people.

WHEELING, W. VA.—The Spindler & Dudley Co., Wheeling, is lowest bidder, at $17,807, for erection of a box factory for Christian Steinmetz & Sons, to replace the present plant. It will have four stories, of fireproof construction, with brick with Cleveland stone trimmings, floors supported by steel structure, boiler and engine rooms too having fireproof walls and floors. Floor space, 30,000 sq. ft. A. L. Kleives, Wheeling, is Arch.

CHERRYVILLE, N. C.—It is reported that the Howell Mfg. Co., of Cherryville, N. C., will double its plant. The company now operates 2,600 ring spindles and 1,400 twister spindles, producing cotton yarns. The mill is driven by electric power.

CLIFFSIDE, N. C.—The Cliffside Mills, of Cliffside, N. C., probably will arrange during 1909 to double the plant's present equipment of 20,000 ring spindles and 910 looms, manufacturing ginghams, which the company dyes and finishes. About 600 operatives are employed. The buildings are ready for such an increase, which will mean an investment of probably $400,000 for the machinery.

CHARLOTTE, N. C.—The Highland Park Mfg. Co., of Charlotte, N. C., is considering the erection of a mill to manufacture coarse yarns and other products from the waste of its mills at Charlotte and Rock Hill, S. C. It has the plans and specifications for examination.

GREENVILLE, S. C.—Brandon Mills, of this city, will build an additional plant of 25,000 spindles and 700 looms for the production of print cloth and converters' goods. The company has engaged Lockwood, Greene & Co., 93 Federal St., Boston, Mass., as Engrs.-in-Charge, and has let contract for the erection of the building, which will be 300 × 125 ft., four stories high. Contracts for the machinery are expected to be awarded during January, and the mill is to be ready for operation for the next crop of cotton, employing about 200 operatives.

BIRMINGHAM, ALA.—The A. O. Kehm Casting Co., 25th St. and 28th Ave., will equip the proposed foundry at North Birmingham. The company will erect building 62 × 90 ft., 36 ft. high, at a cost of $1,500; cost of equipment, $10,000. Heavy blast-furnace and mine castings will be manufactured. Daily capacity, 40 tons heavy castings.

The management of the Bessemer Soil Pipe Works has planned to enlarge its foundry. It is stated that 14 floors will be added and the addition will double the capacity of the plant. It will install a new boiler, engine, blower and cupola. The improvements will cost approximately $100,000.

ASHLEY, MISS.—Bids are asked until Feb. 1 by J. W. Ashley for sawmill machinery. The plant for which the machinery is intended will have a daily capacity of 15,000 ft. of lumber. The building will cost $5,000.

NASHVILLE, TENN.—The Independent Ice Co., recently incorporated, will establish a factory to cost $70,000, and will erect brick structure, 50 × 100 ft. [illegible] tons. F. A. Alley, Pres.; J. A. Green, Secy.

The Standard Furniture [illegible] son, Pres., will erect a [illegible] finishing department and [illegible] be a 3-story brick structure [illegible] mill construction.

CLEVELAND, OHIO.—[illegible] ting Co., Hercules Bldg., [illegible] erect a mill, the contract [illegible] awarded to I. B. & M. [illegible] new building will be 15 [illegible] stories high, and will be [illegible] automatic sprinkler system. [illegible] will be used in the exterior [illegible] dations, work on the latter [illegible] pleted. BOLTON-PRATT [illegible] Bldg., Cleveland, are the [illegible] mason work, and A. F. [illegible] Trust Bldg., is Arch. The [illegible] have a floor space of 60,000 [illegible] pected to be ready for [illegible] spring. This company was [illegible] 1901 with a capital of $65,000 [illegible] is Pres. and Mark L. Corn[illegible]

AUBURN, IND.—Wimer[illegible] have ordered plans and will [illegible] soon for the construction of [illegible] building in this city.

FREEMONT, IND.—The M[illegible] Co. will receive bids for the [illegible] several grain elevators as soon [illegible] completed. Otis Mammel is Pr[illegible]

GARY, IND.—The Americ[illegible] Co. has purchased 130 acres [illegible] Gary Land Co. upon which to [illegible] equip a locomotive plant which will give employment to 15,000 men. The company contemplates concentrating [illegible] some of its other plants at Gary.

LA SALLE, ILL.—According to the Chicago "Record-Herald," announcement of the addition of machinery and equipment which will increase the total investment to more than $2,000,000 is made by the Marquette Cement Mfg. Co., 204 Dearborn St., Chicago. The works of the concern are at La Salle, Ill. The improvements will increase the output 50% over that of last year, bringing the total to 6,000 bbls. of Portland cement daily. The company is controlled and directed by William and Theodore Dickinson.

BURLINGTON, IOWA.—H. [illegible] Goddard, Arch., Tama Bldg., Burlington, advises us that the general contract for constructing a 4-story mill-constructed factory building for Chittenden & Eastmann Co. has been let to HENRY A. BECK, of this city. The sprinkler system, elevator and heating to be let under later contracts.

Mr. Goddard advises us that he is preparing plans for a 5-story building, 60 × 116 ft., the basement and first story to be of reinforced concrete, the balance of the building to be of mill construction, and same to have sprinkler system installed. Plans and specifications for this building will be ready for the contractors early in February.

ST. LOUIS, MO.—The St. Louis Contracting Co., Jerome F. Casey, Pres., will erect a factory on Clayton Ave. to cost $60,000. The site fronts 242 ft. on Clayton Ave., starting 100 ft. west of Newstead Ave. It has a depth of 370 ft. to the Wabash R. R. tracks. The price paid for the lot was $25,000. The work of grading has begun, and a switch will be run from the railroad tracks through the lot. The plant will employ 150 people, and it will contain a stone planer to shape Bedford stone.

KENDALL, WASH.—The Balfour-Guthrie Co. has awarded a contract to F. E. SMITH & CO., 30 Cortlandt St., New York, for building a cement plant near Kendall. The construction is to begin at once.

VICTORVILLE, CAL.—The Victor Portland Cement Co. will expend $1,000,000 in erecting a plant here and constructing a standard-gage railroad from the factory to the deposits. Daily capacity is to be 3,000 bbls. Plans have been prepared and it is reported work is to commence immediately. David A. Mulvane is Pres.; John G. Meacham is Secy.

ATWOOD, ONT.—Bids are asked until noon, Jan. 30, by Edmond Gunn, 25 Toronto St., Toronto, Ont., for the purchase of the mill, machinery, roadbed, marl deposits, etc., of the estate of the Western Ontario Portland Cement Co., Ltd. The plant is situated in the village of Atwood, in the County of Perth, and has been operating for three seasons, producing cement, and with an estimated capacity of over 300 bbls. a day.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

CEMENT MILL.—Atwood, Ont.—For sale of cement mill, etc., see under Manufacturing Plants.

HYDRAULIC DREDGE.—Toronto, Ont.—Bids will be received Jan. 19 by Jos. Oliver, Mayor, Chn. Board Control, for constructing a hydraulic dredge complete.

DITCHES.—Crookston, Minn.—Bids will be received until Jan. 27 by N. A. Hoffard, County Audr., for constructing ditches, requiring 28,000 cu. yds. of excavation. Estimated cost, $3,368.

DITCH.—Sioux City, Iowa.—Bids are asked by E. E. Hosmer, County Audr., until 2 p. m., Feb. 1, for construction of the Hackley Lateral Ditch, Woodbury County. Approximate quantities, 39,000 cu. yds.

GAS BUOYS.—Tompkinsville, N. Y.—The U. S. Light House Inspector has awarded contract to the SAFETY CAR HEATING & LIGHTING CO., 2 Rector St., New York, for seven gas buoys, at $72,600.

SAND, COKE, PIG IRON.—Augusta, Ga.—Bids are asked until noon, Jan. 15, by Commanding Officer, Augusta Arsenal, for furnishing and delivering at Augusta Arsenal, molding sand, foundry coke and pig iron.

PUMPING SYSTEM.—Grass Valley, Cal.—The company operating the Empire mines at Grass Valley has let contract for new pump-

ing system to the TAYLOR FOUNDRY & ENGINEERING CO., of Grass Valley. Estimated cost, $[illegible],000.

DITCH.—W[illegible]r, Minn.—Bids were received on D[illegible]31 by John Feig, County Audr., at W[illegible]ar, for digging and constructing di[illegible]No. 29. Estimated cost, $5,-664. Contra[illegible]as been let to CHARLES SUTCLIFF, [illegible]on, Minn.

LEVEE—[illegible]ndria, La.—Bids are asked until Jan. [illegible] the Board of Commissioners Red [illegible] Atchafalaya and Bayou Boeuf Leve[illegible]stricts for constructing new levee in Ra[illegible] parish, to be known as B. T. Lewis L[illegible] It will contain about 33,000 cu. yds. [illegible]earthwork.

GREENH[illegible]S.—Ithaca, N. Y.—The only bid received [illegible]F. B. Ware, State Arch., on Jan. 8th, fo[illegible] work of constructing greenhouses at [illegible] Agricultural School, Cornell University, [illegible]aca, was that submitted by the King C[illegible]nstruction Co., North Tonawanda, N. [illegible] at $58,426.

FENCING—New York, N. Y.—The lowest bid received [illegible]on Jan. 12 by the Aqueduct Commissione[illegible]280 Broadway, for building, approximately [illegible]¾ miles of iron and wooden fencing, wit[illegible]necessary gates, around Jerome Park Reservo[illegible] was submitted by the J. W. Fisk Iron Works, 56 Park Pl., at $23,056.

*METAL WORK.—Mobile, Ala.—Bids were received on Jan. [illegible]4 by the Light-House Engr., Mobile, Ala., for furnishing materials and labor of all kinds necessary for the construction and delivery of the metal work for Galveston City Light-Station, Tex. Lowest bid was submitted by the Champion Iron Works, Kenton, Ohio, at $8,595.

DITCH.—St. Paul, Minn.—Bids were received by S. G. Iverson, Secy. State Drainage Commission, on Jan. 2 for the construction of Gun Lake, Minn., state ditch. There are about [illegible]32,000 cu. yds. to be excavated. G. A. Ralph, St. Paul, is State Drainage Engr. Contract has been awarded to FOLEY & GLEASON, of Sioux Falls, S. Dak., at 7.3 cts. per cu. yd.

FOLEY & GLEASON were also awarded contract for state ditch No. 63 at 9.6 cts. Estimated quantity, 85,286 cu. yds.

DRAINAGE DITCHES AND LEVEES.—Atkinson, Ill.—Bids are asked until 2 p. m., Feb. 6, by the Commissioners of the Drainage Union District Number One of the Towns of Atkinson and Alba, in Henry County, for the construction of 41,300 ft. of open ditches with a total estimated excavation of 163,300 cu. yds. and 3,400 ft. of levees with an estimated fill of 2,800 cu. yds. H. E. Reeves, Atkinson, Ill., is Engr.

CONDUIT.—Salt Lake City, Utah.—JAMES KENNEDY, Salt Lake City, has been given contract by the Utah Light & Railway Co. to build a conduit along Seventh East St., from Tenth to Eleventh South Sts. to take care of the waters from the big ditch bordering the street railway company's lines on Seventh East St. and from the swamps in the neighborhood of that street and Eleventh South St. The contract price is $22,000.

DOCK.—Boca Grande, Fla.—The Charlotte Harbor & Northern Railway Co. has let contract for extending its main dock at Boca Grande Pass, the southern terminus of this road, to a depth of 30 ft. of water. Boca Grande is the most southern deep water port in the United States with railway connections, being 110 miles south of Tampa, on the Gulf Coast. McAULEY BROS. & DURANT, Boca Grande, Fla., are the contractors.

MONUMENT.—Indianapolis, Ind.—Bids are asked until noon, Feb. 15, by the War Department, Office of the Commissioner for Marking Graves of Confederate Dead, Washington, D. C., for furnishing and erecting complete, including foundation, in the Confederate section of Green Lawn Cemetery, Indianapolis, Ind., a monument or marker to the Confederate prisoners of war buried therein, to be either of crystalline marble or of granite.

DOCK IMPROVEMENTS.—Duluth, Minn.—The Northern Coal & Dock Co., N. Y. Life Bldg., St. Paul, Minn., has awarded contract to the GREAT LAKES DREDGING CO., of Superior, Wis., for filling and crib work in connection with dock improvements at Conner's Point. The contracts for the balance of the improvements in the machinery line and extension of coal-handling bridge have not yet been awarded. J. M. Selleck is Res. Mgr., Northern Coal & Dock Co., Superior, Wis.

*REMOVING WRECKS.—Boston, Mass.—Bids are asked by Lieut.-Col. Edw. Burr, Corps Engrs., U. S. A., until noon, Feb. 6, for removing wrecks of steamers "Germania" and "Reindeer," canal boats "Geo. D. Cull," "John R. Myers," "North Star," "E. D. Case," "Richmond," "William Parker," "F. J. Bailey," "Governor Roosevelt," "Georgie T." and "Armenia Allore," and hulks of eight other canal boats, names unknown, in the narrows of Lake Champlain, New York and Vermont, unless otherwise removed within 30 days.

CANAL.—Peterboro, Ont.—The contract for Section No. 7 of the Trent Valley Canal has been awarded to RANDOLPH McDONALD, of Toronto, Ont., who also has contract for the Rosedale section. Section No. 7 extends from Rice Lake to Healy Falls, a distance of about 20 miles, and includes the construction of a dam and lock at Hastings, new guide piers at the Grand Trunk Railway bridge at the same village, and also at the Narrows at Trent Bridge, the dredging of the river from Hastings to Healy Falls to produce a 9-ft. draught. The contract price is stated to be about $450,000.

U. S. POSSESSIONS AND CUBA.

ELECTRIC LIGHT PLANT.—Porto Rico.—The contract for constructing the municipal electric light plant in Ponce has been awarded to [illegible]MAN & SANFORD, 149 Broadway, [illegible]York, N. Y.

ICE-MAKING AND REFRIGERATING MACHINERY.—Porto Rico.—Bids were received [illegible]an. 9, by the Bureau of Yards and D[illegible] Navy Dept., Washington, D. C., for furnishing and installing ice-making and refrigerating machinery at Navy Station, Culebra, Porto Rico. The lowest bid received was submitted by the Brunswick Refrigerating Co., New Brunswick, N. J., at $2,190.

SUPPLIES, Panama.—Bids will be received until Jan. 18 by the Isthmian Canal Commission, Washington, D. C., for furnishing the following supplies: Sanitary fixtures, sheet brass, brass pipe and fittings, iron pipe and fittings, cocks, bibbs, valves, lead pipe, wheels, axles, wagon parts, tire wheel and shrinker, axle gage, punch and shear, bolt cutter, locomotive ash-pan studs, anchors, chain, windlasses, marine lights, marline, asbestos, cement, engine oil, etc. (Circular No. 486.)

Bids will be received until Jan. 25 by Capt. F. C. Boggs, Corps Engrs., U. S. A., General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing, according to Circular No. 487, steel, iron, castings, chain wire rope, exhaust heads, blasting caps, fuses, connecting wire insulating tape, etc.

Bids will be received until 10.30 a. m., Jan. 26, by Capt. F. C. Boggs, Corps Engrs., U. S. A., General Purchasing Officer, Isthmian Canal Comn., for furnishing steel rails, angle bars, tie plates, track bolts and spikes, rail braces, frogs, switches, switch stands, ties, etc.

PILING.—Panama.—Bids were received as follows on Jan. 4 for furnishing to the Isthmian Canal Commission, Washington, D. C., a quantity of piles as follows, (a) 2,800 40 to 70 ft., (b) $1,090, 45 to 75 ft.: American Tie & Timber Co., 11 Broadway, New York, (a) $22,725; (b) $10,866; 85 days. A. S. Bacon & Sons, Savannah, Ga., (a) $24,338; (b) $11,637; 100 days. G. S. Baxter & Co., 15 William St., New York, (a) $25,427; (b) $12,158; 60 days, all or none. G. Elias & Co., Buffalo, N. Y., (a) $27,470; (b) $13,932; 120 days. Arthur Gamwell, Seattle, (a) $36,169; (b) $14,173; 90 days. D. L. Gillespie & Co., Pittsburg, (a) $23,175; (b) $11,081; 90 days, all or none. Gulfport Creosoting Co., Gulfport, Miss., $11,681; 60 days. George R. Johnson, Baltimore, (a) $31,897; (b) $15,497; 150 days. Lake Superior Piling Co., New Orleans, (a) $24,338; (b) $11,637; 60 days. W. K. Linscott, Mobile, Ala., (a) $25,030; (b) $11,396; 85 days. S. E. Naylor & Co., Gulfport, Miss., (a) $23,248; 60 days. Salmen Brick & Lumber Co., New Orleans, (a) $24,556; 55 days; (b) $11,741; 70 days. Southern Sawmill Co., New Orleans, (a) $24,338; (b) $11,637; 100 days, all or none. W. R. Grace & Co., San Francisco, Cal., (a) $29,650; (b) $13,900; 140 days, all or none.

CONTRACT PRICES.

HIGHWAY BRIDGE.—Fairport, N. Y.—The itemized prices of bids received on Jan. 5 by F. C. Stevens, Supt. Public Works, for Barge Canal Contract No. 38, which is for construction of substructure, superstructure and approaches of a highway bridge at Wappings, near Fairport, N. Y., were: (A) Engineer's estimate; (B) W. W. Lindsay & Co., 902 Hanson Bldg., Philadelphia, Pa.; (C) HENRY TOSH & SON, Port Byron, N. Y. (awarded contract); (D) Merrill, Ruckgaber & Frasen Co., 50 Church St., New York; (E) Charles T. Hookway, Syracuse, N. Y.; (F) A. J. Rockwood, Rochester, N. Y.; (G) Bellew & Merritt, Co., Tuckahoe, N. Y.; (H) E. W. Huntington, Rochester, N. Y.; (I) Whitmore, Rauber & Vicinus, Rochester, N. Y.; (J) W. J. Burns Co., Syracuse, N. Y.; (K) W. A. Johnston, Collins, N. Y.; (L) the Wm. T. McKibben Co., 1170 Broadway, New York:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Cofferdam, pumping, bailing and draining, lump sum	$200.00	$225.00	$200.00	$200.00	$200.00	$100.00	$200.00	$200.00	$200.00	$250.00	$200.00	$175.00
13,000 cu. yds. excavation	.65	.60	.50	.65	.65	.60	.75	.60	.60	.64	.55	.65
900 cu. yds. lining	1.50	1.75	1.25	1.50	1.20	1.50	1.50	1.50	1.50	1.50	1.58	1.25
2.5 M. ft. B. M. sawed lumber (yellow pine or Douglas fir) per M. ft.	55.00	50.00	60.00	55.00	50.00	55.00	55.00	55.00	55.00	60.00	60.00	50.00
250 cu. yds. 2d-class concrete	8.00	7.50	7.00	7.60	8.00	8.00	9.00	7.00	9.00	8.00	7.50	7.25
45 cu. yds. 3d-class concrete	7.00	7.00	6.50	7.00	6.00	7.00	8.00	6.50	7.00	7.00	6.50	6.75
95 cu. yds. reinforced concrete	12.00	12.00	10.00	8.00	10.00	11.00	13.00	10.00	13.00	12.00	10.00	9.00
2 cu. yds. masonry coping	30.00	30.00										
270 sq. yds. 3-class stone pavement	1.25	1.40	28.00 1.20	22.00 2.00	30.00 1.25	36.00 1.50	30.00 1.25	30.00 1.25	30.00 1.50	30.00 1.50	30.00 1.30	20.00 1.50
105,000 lbs. structural steel	.04½	.04¾	.04¼	.04¼	.04	.05	.045	.045	.04¼	.045	.049	.04
9,000 lbs. metal reinforcement	.04	.038	.04	.025	.04	.035	.05	.04	.04	.04	.035	.03⅜
275 sq. yds. wooden pavt.	2.75	2.75	2.50	2.00	2.00	2.75	2.75	2.75	3.00	3.00	2.80	2.50
1,500 lin. ft. wooden fence	.20	.20	.20	.15	1.20	.20	.25	.20	.25	.25	.20	.20
Totals	$20,131	$19,879	$17,157	$19,131	$18,882	$19,846	$21,986	$19,010	$19,775	$20,275	$18,912	$18,816

BRIDGE.—Rochester, N. Y.—Bids were received as follows, in detail, by F. C. Stevens, Supt. Public Works, on Jan. 5, for construction of bascule bridge over Erie Canal at Allen St., Rochester: (A) W. J. Burns Co., Syracuse, N. Y.; (B) Merrill, Ruckaber & Fraser Co., 50 Church St., New York; (C) W. T. McKIBBEN CO., 1170 Broadway, New York (awarded contract):

	(A)	(B)	(C)
3,500 cu. yds. excavation	$0.72	$1.20	$0.60
1,400 cu. yds. forming embankment	.23	.25	.20
1,050 cu. yds. second-class concrete	7.50	8.00	7.00
10 cu. yds. lining	2.00	2.00	1.10
450 sq. yds. approach pavements	2.50	2.50	2.00
1,600 sq. ft. Portland Cement Sidewalks	.20	.20	.18
100 lin. ft. new curb stones	1.50	1.50	.80
50 lin. ft. curb stones reset	.75	.75	.45
24 sq. ft. vault lights	2.50	2.50	1.00
1,000 sq. ft. stairways and foot bridge floor	.42	.40	.30
23,000 lbs. metal reinforcement	.0395	.04	.0373
2,000 lbs. cast-iron pipe	.05	.03	.0125
215,000 lbs. structural steel	.0478	.05	.0395
20,000 lbs. machinery	.13	.14	.0975
200 sq. yds. wooden pavement	3.00	3.00	2.50
4,000 ft. B. M. yellow pine sawed lumber, per M. ft. B. M.	60.00	55.00	45.00
210 lin. ft. lattice railings	2.00	2.20	1.75
Electrical equipment complete (lump sum)	2,495.00	2,600.00	2,500.00
Operator's cabin, complete (lump sum)	365.00	350.00	290.00
Safety gate, complete (lump sum)	500.00	100.00	450.00
Deduct price to be paid by the contractors to the State of New York for the existing superstructure	285.00	250.00	260.00
Totals	$31,070	$33,674	$26,708

INDUSTRIAL NOTES.

THE WESTERN STATES PORTLAND CEMENT CO., of Independence, Kan., announces that Mr. T. F. McClaren is General Sales and Traffic Manager of the company.

THE MINNEAPOLIS STEEL & MACHINERY CO. has moved its southern office into the New Praetorian Bldg., Dallas, Tex., where its southern representative, Mr. J. P. Greenwood, will handle the Texas business of the company.

THE BOARD OF DIRECTORS of Riehle Brothers Testing Machine Co., Philadelphia, at a meeting held at their office Dec. 22, declared an annual dividend of six per cent. on the capital stock of the company for the year 1908.

THE NELSON VALVE CO., of Philadelphia, has recently established two branch offices in the Middle West to keep pace with its rapidly expanding business; one in Detroit at 822-23 Penobscot Bldg., the other in Cleveland at 813-14 Perry Payne Bldg. Mr. John M. Bulkley has been appointed Sales Manager for the territory of Ohio and Michigan.

MR. D. D. PENDLETON, who was connected with the Westinghouse Electric & Mfg. Co., of Pittsburg, Pa., for some fifteen years, has recently opened offices as District Sales Manager of the American Boiler Economy Co., manufacturers of the Copes Feed Water Regulator, and the Copes Pump Governor. Mr. Pendleton's offices are located in the Frick Building Annex, Pittsburg, Pa.

THE BERGER MFG. CO., Canton, Ohio, held its third annual salesmen's convention from Dec. 28 to Jan. 2. The representatives of the firm from the various sales offices through the country attended twelve business sessions which were given over to the discussion of ways and means to secure more and better business during the coming year. The social end of the convention was ably carried out, culminating in a banquet on the closing day.

THE COMMERCIAL TESTING & ENGINEERING CO. announces the opening of offices and laboratories in the Old Colony Building, Chicago, specializing along the following lines: Boiler-room economies, coal analysis, heat value, method of purchasing fuel, coal washing and preparation for operators. Edward H. Taylor is President; Harry W. Weeks, Vice-President; W. D. Stuckenberg, Treasurer, and B. J. Maynes, Secretary, of the company.

THE BUFFALO STEAM PUMP CO., Buffalo, N. Y., advises that it has contracted with the city of Grand Rapids, Mich. to furnish ten large sewage pumps, having a total capacity under maximum conditions of over 250,000 gallons per minute. The pumps are to be placed in three stations, one station to contain two 18-in. pumps, second to contain two 24-in. pumps, third to contain two 24-in. pumps and the fourth station four 40-in. pumps. The ten pumps together, without motors, will weigh approximately 200,000 lbs.

IN ORDER TO HANDLE its constantly increasing business to better advantage, the Raymond Concrete Pile Co., of New York and Chicago, has recently established two new branch offices, one at 204 Perrin Bldg., New Orleans, and another at 620 Chestnut St., St. Louis. The New Orleans office is in charge of Mr. G. B. Raymond, who will take care of all business for his company in the Southern States. The St. Louis office is in charge of Mr. Warren A. Tyrell, C. E., who has represented the Raymond Co. in that city for some time.

POTTER, SMITH & CO. have opened an office at 400 Coleman Bldg., Fifteenth St. and South Penn Sq., Philadelphia, for the purpose of conducting a civil engineering and contracting business. They propose to make a specialty of steam and electric railways, and are prepared to make examinations and reports for the information of prospective investors, also to make preliminary surveys, locations, maps, plans, specifications, estimates of cost, and to act as supervising engineers to assure the faithful performance of work. They are also prepared to take contracts for construction of railways, bridges, dams, retaining walls, etc., and have a sufficient outfit for work of considerable magnitude.

A LARGE BRIDGE and structural steel concern with a capital of $250,000 and a capacity for employing at the beginning of operations 200 men, has been announced as a new industry for Massillon, Ohio. A large block of the stock has been subscribed by practical steel men, among whom is C. S. Davis, who was Chief Engineer for the old Massillon Bridge Co. and later for its successor, the Toledo-Massillon Bridge Co., and who will be general manager of the new concern. The number of employees will be increased to 500 with the completion of the present plans. According to the plans already prepared a thoroughly modern plant for the erection of all kinds of structural steel and bridge work will be built.

AT THE STRUCTURAL SHOPS of the Receivers of Milliken Bros., Inc., on Staten Island, New York City, recently, 143 tons of plates were punched in one day (8 hours, 47 minutes to be exact) on one machine tool. The plates were 13-in. flange plates for girders ⅝-in. and 11/16-in. thick and averaging about 32 ft. in length. The average number of 15/16-in. holes was about 96 to each plate, staggered except at the ends. There were three sizes of plates and varieties of spacing; 52 of one kind, 168 of the second and 96 of the third. The total length of plate handled was 10,036 ft.; weight, 285,850 lbs., and total number of holes, 30,384. This work was done on a multiple punch, four plates being passed through at a time. A few days previous to this, one man punched 12,740 9/16-in. holes, one at a time, in ten hours. This was on light transmission line tower angles, on a light single stroke, quick acting punch. These performances are believed to be records in the line of rapid punching in the bridge shop.

THE LINK BELT CO., Philadelphia, state that among recent orders may be mentioned: A locomotive coal, ashes and sand station for the Philadelphia & Reading Railway at Ninth and Wallace Sts., Philadelphia. The plans of the station, which will eventually supersede the one now in use, call for reinforced concrete bins, supported by an under-structure of steel, covered with concrete. There will be twelve pockets for coal, two to each of six coaling tracks. Total capacity, 2,000 tons. Ashes will be kept in two pockets having a capacity of 250 cu. yds. Sand storage: six hoppers, three on each side of station, to hold 48 cu. yds. of sand. The conveying machinery comprises duplicate systems, and each will have a capacity of 100 tons per hour of coal, and of ashes 250 cu. yds. in 10 hours. Other installations in Pennsylvania include elevating and conveying machinery at cement mills, paint works, hat manufactory, and fueling equipment for a mining company. An open-top carrier will be installed for a contracting firm in New York, and an ashes hoist for a manufacturing concern in North Carolina.

PATTERSON & DAVIDSON, constructing and industrial engineers, 1448 Monadnock Block, Chicago, is a new firm organized by W. R. Patterson, consulting engineer, and F. E. Davidson, architect and civil engineer. It will undertake to advise as to the location and construction of manufacturing and industrial plants. It will also prepare plans and specifications for and supervise the construction of such plants, as well as of office buildings, warehouses, factories and commercial structures of all kinds. Mr. Patterson has been for about 12 years the plant engineer of the Western Electric Co., in charge of the location, design, construction and equipment of buildings in this country and abroad. Mr. Davidson has been architect and engineer of construction of the same company for about 3½ years, and structural engineer of the Illinois Steel Co. for 5 years. He was formerly in the Department of Public Works, Chicago. They were both connected with the design and construction of the Western Electric Co.'s manufacturing plant at Hawthorne (Chicago) and the warehouse and factory of the California Electrical Works in San Francisco, which latter successfully resisted the attack of the great fire which followed the earthquake of a few years ago.

WM. AINSWORTH & SONS, the well-known instrument makers of Denver, Colorado, U. S. A., are producing a new 30-in. automatic circular dividing engine which has recently been finished in the tool and experimental department of their factory, and which has many original features making for increased accuracy and speed in the graduation of the circles for engineering and astronomical instruments. A feature of this machine is its massiveness and its rigidity, for while its heaviest work will be the ruling of lines, .002-in. wide by .005-in. deep, its weight exceeds 2,000 lbs., and it is mounted on a concrete foundation that is entirely separate from the floor. As far as

possible all parts have been made of cast iron, but the bearings throughout are of tool steel, hardened and ground, which insures durability and permanence of alinement for an indefinite period, and while the difference in the expansion coefficients of the three materials used is .000001 per degree Fahrenheit, the makers claim that the construction is such that its alinement and operation are not perceptibly affected by a temperature variation of 30° F. although the engine is located in an underground constant temperature building with a temperature variation of but 1° F. The worm wheel of cast iron and weighing 175 lbs. is well ribbed and has imbedded in its upper surface three platinum circles on which the original and corrected circles have been divided and from which the worm teeth are cut and corrected. Owing to the extreme rigidity of this machine errors as small as .00001-in. are readily determined by means of the high power microscopes used, and as the worm wheel was seasoned for a period of two and one-half years before the final work was done on it, errors once determined and corrections made will remain constant for an indefinite period. The worm wheel spindle is of cast iron with conical hardened steel sleeves which rest in hardened steel bearings carried by a cast-iron socket, a counter-balanced roller bearing taking all but about 10 lbs. of the weight of the wheel and spindle off the bearings, this being sufficient to hold the spindle firmly in its bearings, a film of watch oil .00002-in. in thickness giving sufficient lubrication. This machine has double dividing heads operated through splined shafts and spiral gearing from a single mechanism on the base, which lifts the cutters, carries them forward, drops them, rules the lines and automatically varies the length of the single fifth and tenth degree lines on two pieces of work simultaneously. Both dividing heads have independent vertical and horizontal adjustment, and either may be independently swiveled to any angle for flat, bevel or edge graduation and both operated simultaneously. The lower rail or bracket carries an auxillary spindle or "quill" as it is called, which in turn carries the work. This bracket is adjustable in every direction, and the "proving plate" on the lower end of the quill facilitates its adjustment together with that of the quill and work to a position with its axis coincident with the axis of the worm wheel, to within the limit of accuracy of the engine. The quills consist of hardened steel spindles carried in hardened steel sleeves, the outside of which are of uniform diameter and concentric with the axes of the spindles and are nothing more or less than precision lathe spindles that are removable and may be carried from one machine to another. The parts to be divided are, after being previously roughed out and seasoned, attached to a quill and all finishing operations, including facing off silver for dividing, dividing, engraving figures and turning graduated edge to gage to fit verniers, before being removed, thereby insuring that each operation is true with every other operation performed on the quill and with the hole at the center from which the work is located, to within the error limits established for this work. Owing to the advancement of astronomy and the increasing precision demanded of instruments for use in connection therewith, error limits that are permissible to-day must be decreased ten, twenty-five or fifty years hence, and in view of this a device is embodied in this machine by means of which original errors in the worm and worm wheel may be further reduced together with any errors that may arise from wear. By the use of this device corrections as small as one tenth of a second (.000005-in. measured on the periphery of the worm wheel) and even less may be made at any time without interfering with the operation of the machine. The operation of the machine is entirely automatic, it only being necessary to place the work in the machine and start it. Upon completion of the work the machine stops automatically and calls the operator's attention to it by the ringing of a bell. The makers state that owing to the fact that they have a considerable amount invested in patterns, tools and fixtures for the production of this machine, they will probably construct to order similar machines under their patents.

TRADE PUBLICATIONS.

GAS-LIGHTING APPARATUS.—The Welsbach Co., Gloucester, N. J. Bulletin 15. Paper; 7¾ × 9¼ ins.; pp. 19; illustrated.

This bulletin is a reprint of an address at Detroit, Mich., on modern gas-lighting methods and fixtures.

CENTRIFUGAL PUMPS.—Albergen Pump Co., 95 Liberty St., New York City. Catalog B. Paper; 6 × 9 ins.; pp. 90; illustrated.

This artistic catalog contains a description of all the volute centrifugal pumps marketed by this firm and much other interesting matter on centrifugal pumps generally.

ALTERNATING-CURRENT TRANSFORMERS.—The Westinghouse Electric and Manufacturing Co., Pittsburg, Pa. Bulletin 1,157. Paper; 7 × 10 ins.; pp. 16; illustrated.

A design of distributing-circuit transformers (Type S) is described, with particular reference to mechanical details, in this leaflet.

PORTABLE RAIL SAWS.—Quincy, Manchester, Sargent Co., Old Colony Bldg., Chicago. Paper; 6 × 9 ins.; pp. 8; illustrated.

These machines are for track work, and have circular saws driven by gearing by means of crank handles. Dimensions and weights are given, with instructions for the use of the machines. There is also an illustrated list of repair parts.

ELECTRIC HOUSE PUMPS.—Hill Machine Co., Anderson, Ind.—Paper; 6 × 3¼ ins.; pp. 16; illustrated.

The motor shaft carries a worm gearing with a worm-wheel which forms the crank disk for a pump; or it may have a pulley for a belt drive. Particulars are given of automatic tank switches for starting and stopping the motor. Dimensions, power and prices are given for the pumping plants.

ENGINEERING INSTRUMENTS AND SOLAR EPHEMERIS.—Bausch & Lomb Optical Co., Rochester, N. Y. Paper; 3 × 5¾ ins.; pp. 42; illustrated.

The first 28 pages are devoted to instruction as to the use of and care of transits and levels, together with particulars of the Saegmuller patent solar attachment. The remaining pages contain the solar ephemeris for 1909, as used with the above attachment.

RETAINING WALL CONSTRUCTION.—The Concrete-Steel Retaining Wall Co., 805 Traction Building, Cincinnati, Ohio. Paper; 6 × 8¾ ins.; pp. 24; illustrated.

The design and reinforcement of reinforced-concrete retaining walls on the Bone system are described, with the merits of the reinforced-concrete wall as compared with the gravity wall. Line drawings and half-tone engravings are given of structures built on this system.

THE USES OF EXPANDED METAL.—Northwestern Expanded Metal Co., 930 Old Colony Bldg., Chicago. Paper; four pamphlets; 3¾ × 6 ins.; pp. 12 to 24; illustrated.

These pamphlets relate to the use of expanded metal lath for plastering, and expanded metal reinforcement for concrete building construction, roof and floor slabs, etc. Notes are given as to reinforced-concrete design, and there are tables of sizes and strength of expanded metal sheets.

ELECTRIC POWER APPARATUS.—Fort Wayne Electric Works, Fort Wayne, Ind. Bulletins 1,109, 1,110 and 5,016. Paper; 8 × 10½ and 5 × 8 ins.; illustrated.

Publication 1,109 describes the equipment of standard multiphase-switchboard panels. No. 1,110 describes a line of engine-driven multiphase alternators of the revolving field type. Instruction Book 5,016 is issued to assist central-station operators to test the condition, performance and capacity of transformers.

MINIATURE INCANDESCENT LAMPS.—The Engineering Department of the National Electric Lamp Association, 4411 Hough Ave., Cleveland, Ohio. Paper; 6 × 9 ins.; pp. 36; illustrated.

This is a descriptive catalog of a large variety of carbon filament miniature lamps for decorative purposes, automobiles, telephone switchboards, storage battery inspection, naval instruments, gun sights, sleeping-car berths, surgical and dental work, etc. The lamps range from 0.1 c. p. to 8 c. p. Sockets and receptacles for these special lamps are listed also.

SEWAGE AND WATER TREATMENT.—National Sanitation Co., 315 South Broadway, Los Angeles, Cal. (H. F. Hiller, Secy.). Paper; 9¾ × 6 ins.; pp. 13; illustrated.

This pamphlet is devoted to what has been named a magneto-electrolytic process of treating water and sewage. The company mentioned above has obtained a license for the use of this process from Mr. John T. Harris, the inventor, the license covering all of the United States except California and Illinois. The pamphlet contains very little information as to the nature of the process. Reference is made to a plant said to be in successful operation at Santa Monica, Cal., and reports regarding the operation of this plant are given.

AIR PUMPS.—Wheeler Condenser & Engineering Co., Cartaret, N. J. Bulletin No. 103. Paper; 8 × 10½ ins.; pp. 32; illustrated.

The action of the Wheeler-Edwards pump in handling both air and water is explained and it is shown how an exceedingly small clearance and the absence of foot and bucket valves results in the attainment of a high vacuum, otherwise to be had only by means of separate dry vacuum pumps, hot-well pumps and air coolers. Various types of Wheeler-Edwards pumps are shown, also a number of large steam-turbine installations in which these pumps are used. The latter half of the book is made up of discussions of the principles of air pumps, tables of mixed vapors, a complete table of saturated water vapor from 60° to 180° F., etc. The final section gives practical instructions for the handling of pumps of this character.

For other Proposal Advertisements see pages 47, 48, of Advertisements and Construction News page 16.

DRAINAGE DITCHES AND LEVEES.

NOTICE OF LETTING FOR CONSTRUCTION OF

Atkinson, Ill.

Sealed proposals will be received by the Commissioners of the Drainage Union District Number One of the Towns of Atkinson and Alba, in Henry County, Illinois, until Saturday, the 6th day of February, 1909, and until two o'clock P. M. of said day, at which time the bids will be publicly opened at the Bass school house, located on the South East Quarter of the South East Quarter of Section Fifteen in Atkinson Township, Henry County, Illinois, and within the boundaries of said Drainage District. The work for which bids are desired consists of the construction of 41,300 feet of open ditches with a total estimated excavation of 163,300 cubic yards and 3,400 feet of levees with an estimated fill of 2,800 cubic yards. Specifications for the work may be had upon application to the Engineer, or they may be seen with the plat and profiles at the office of the Engineer or Town Clerk. A copy of the plat and profiles may be procured from the Engineer upon the payment of $1.00. The place of letting is two miles north of the Village of Atkinson, which is on the C., R. I. & P. Ry.

EDWARD NOWERS,
Atkinson, Illinois,
ANDREW W. ALLEN,
R. R. No. 6, Geneseo, Illinois.
JOHN FRANKENREIDER,
Annawan, Illinois.
Commissioners in and for said Drainage District.

H. E. REEVES,
Atkinson, Illinois.
Engineer.
HENRY STELEK,
Rock Island, Illinois.
Attorney.

SEWER SYSTEM AND PUMPING PLANT.

East St. Louis, Ill., Jan. 14, 1909.

Proposals will be received by the Board of Local Improvements of the City of East St. Louis, Illinois, until 12 o'clock noon, February 17th, 1909, for the construction of a system of concrete and pipe sewers and a sewage pumping station as follows:

One pumping station building and appurtenances.

Five drainage and two sewage pumping engines, to be vertical, single acting gas engines, direct connected to horizontal shaft centrifugal pumps.

33,500 lineal feet of sewers, varying in diameter from 3 to 10½ ft.

The work will be paid for in cash or bonds. Specifications, plans, form of proposal and other information may be obtained from the Engineer of said City upon a deposit of $5.00.

W. J. CROCKEN,
City Engineer.

U. S. ENGINEER OFFICE, Mobile, Ala., January 11, 1909.—Sealed proposals for constructing sixty-one wooden pontoons will be received at this office until 11 o'clock a. m., February 11, 1909, and then publicly opened. Information on application. H. JERVEY, Major, Engineers.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 12, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 20th day of Feb., 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post-Office at Bar Harbor, Maine, in accordance with drawings and specifications, copies of which may be had from the Custodian of site at Bar Harbor, Maine, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

WASHINGTON, D. C., Jan. 12, 1909.—Sealed proposals will be received at Room 212, District Building, at 2 P. M., Feb. 16, 1909, for coping for the Municipal Building. Information on application to MAJOR COSBY, Executive Officer, Room 212, District Building, Washington, D. C. Bids must be accompanied by certified check for one hundred dollars ($100.00).

Situations Wanted

Civil Engineers.

CIVIL ENGINEER; wide... road and construct... work; will go South... "X. A. 2," Engineeri... rience on rail... and surveying West. Address ... New York. 2-2t

CIVIL ENGINEER, ... specialist, experience... estimator and in char... engagement; owner of... first-class references. ... Engineering News, N... ced concrete ... designer and ... work, wants ... able patents. ... ss "O. A. 2," ... k. 2-2t

CIVIL ENGINEER, tech... years' experience R. R. ... struction, heavy foun... engineering; familiar ... sign reinforced concre... 2," Engineering News, ... graduate, 5 ... tion and con... ns, municipal ... theory, de... dress "P. A. ... York. 2-3t

Draftsmen.

DRAFTSMAN; experienced ... tailing, checking and ... York vicinity preferred ... 2," Engineering News, ... rapid; de... ating. New ... ress "Z. A. ... York. 2-2t

DRAFTSMAN, detailing, ch... mating; five years' exp... tural and ornamental iro... Address "M. A. 2," En... New York. ... and esti... in struc... r buildings. ...ering News. 2-1t

Superintendents, Mi... etc.

REINFORCED CONCRETE ... neer, single, 26 years of ... knowledge building con... cially concrete, desires po... ture, designing and some ... experience, late with ... firm. Address "P. A. 2," ... News, New York. ...long engi... age, thorough ...truction, espe... sition with fu... superintending ... very prominent ... Engineering 2-1t

Situations Open

ENGINEER WANTED.—Some experience in water-works. Mechanical knowledge and good correspondent. Office work only. Address "A. A. 2," Engineering News, New York. 2-1t

WANTED—Immediately, a high grade salesman with experience in selling machinery and equipment in the power plant field. Must have a record showing ability to develop and close sales with big industrial establishments, consulting engineers and architects. Preference will be given to an ex-Allis-Chalmers or Westinghouse man, but consideration will be given to all applicants. An excellent opportunity for the right man. Address "J. A. 2," Engineering News, 1636 Monadnock Block, Chicago. 2-1t

EDITOR FOR LEADING TECHNICAL journal. Applicant must be especially versed in highway engineering and paving construction and able to write clearly. Position is permanent, and assures most excellent future for right man. Address, stating experience, if any, salary expected to start, etc., "W. A. 2," Engineering News, New York. 2-1t

Miscellaneous Wants

CONTRACTORS, incorporated and established in New York, desire to communicate with young college engineers with financial connections, with view to their taking active and financial interest in company. Address "S. A. 2," Engineering News, New York. 2-1t

WANTED—Corliss engine, 18-inch to 22-inch cylinder. Must be in first-class working condition. State size, make, age, and lowest cash price f. o. b. cars. Address "ENGINE," 212 East Kinzie St., Chicago. 2-1t

FOR SALE

FOR SALE.

SECOND-HAND

Engines, Derricks and Boilers

1 center crank automatic side valve horizontal 30 HP.; 1 stationary 40 HP.; 1 center crank 80 HP. (all in first-class condition); three 15-ton derricks, complete, without boiler (practicaly new); one five-ton derrick complete, without boiler (practically new); one 72 × 18 stationary boiler, complete, 100 lbs. pressure (practically new). Address ERIE FORGE COMPANY, Erie, Pa. 2-2t

FOR SALE.

Eighteen Dump Cars

30" gage, wood frame, 5,000 ft. 20 lbs. relaying rails, frogs, switches, etc.; all in good condition.

PEACE BROTHERS,
20 Main Street, Flushing, ... I. 2-4t

$1100 BUYS

VULCAN 4 Driver Saddle Tank Locomotive; 36" gage. Hand brakes. Built Dec. 1902, overhauled 1906, used little since. Well housed to protect from weather since ceasing work. Shipment from Huntington, Pa. Have at same place PORTER 36" gage Dinky, 7 × 12"; hand brakes; built Dec. 1901; good working order. $950.00.

JOHN B. WATSON,
511-17 Drexel Bldg. Philadelphia, Pa. 2-1t